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Hitchcock, Edward, 1793-1864.

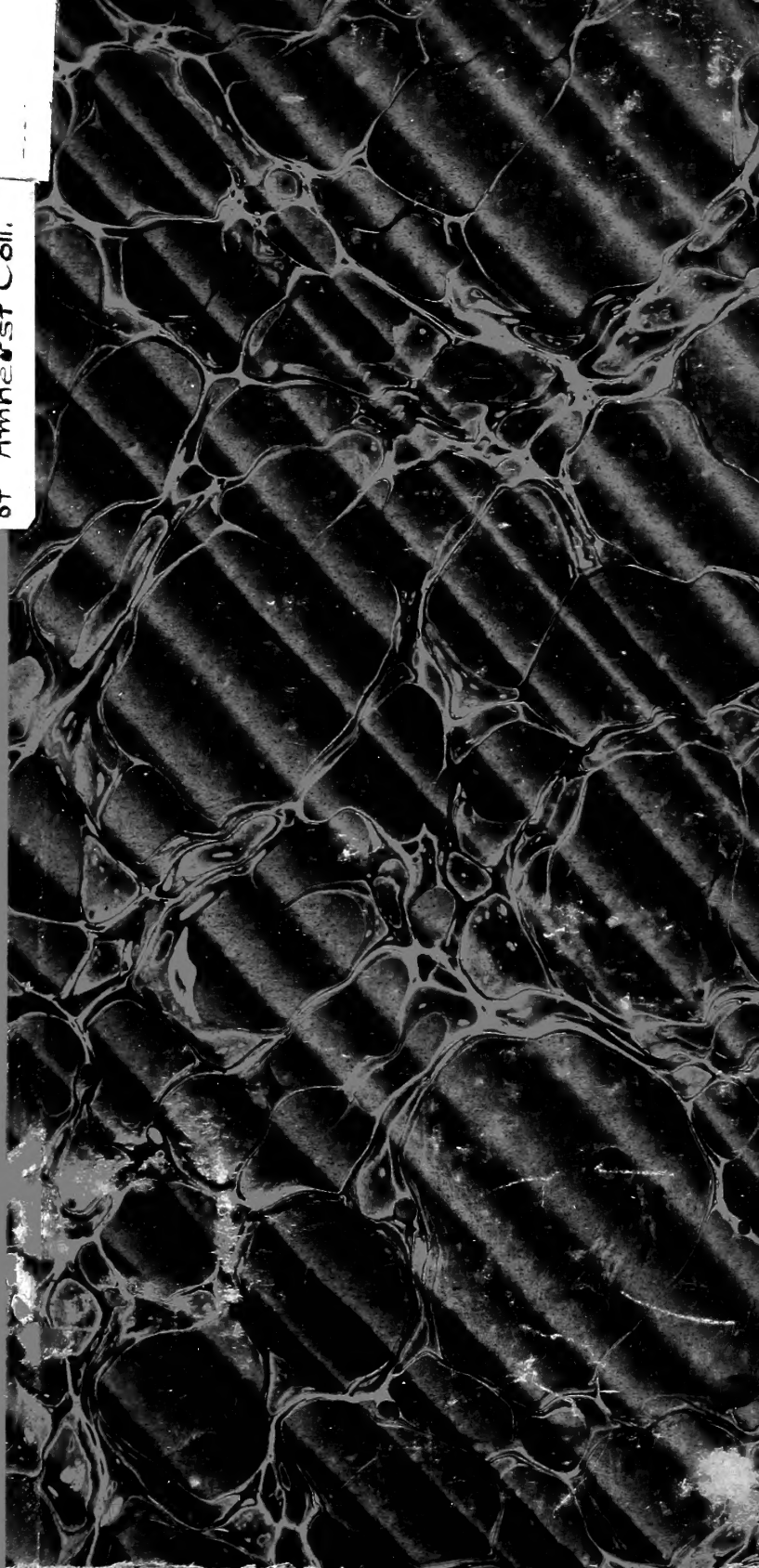
A catalogue of plants growing without
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College...

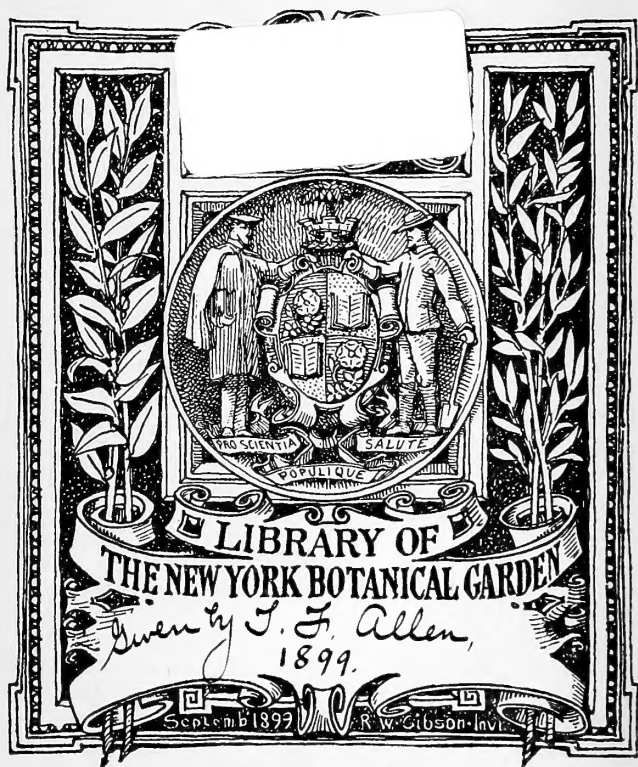


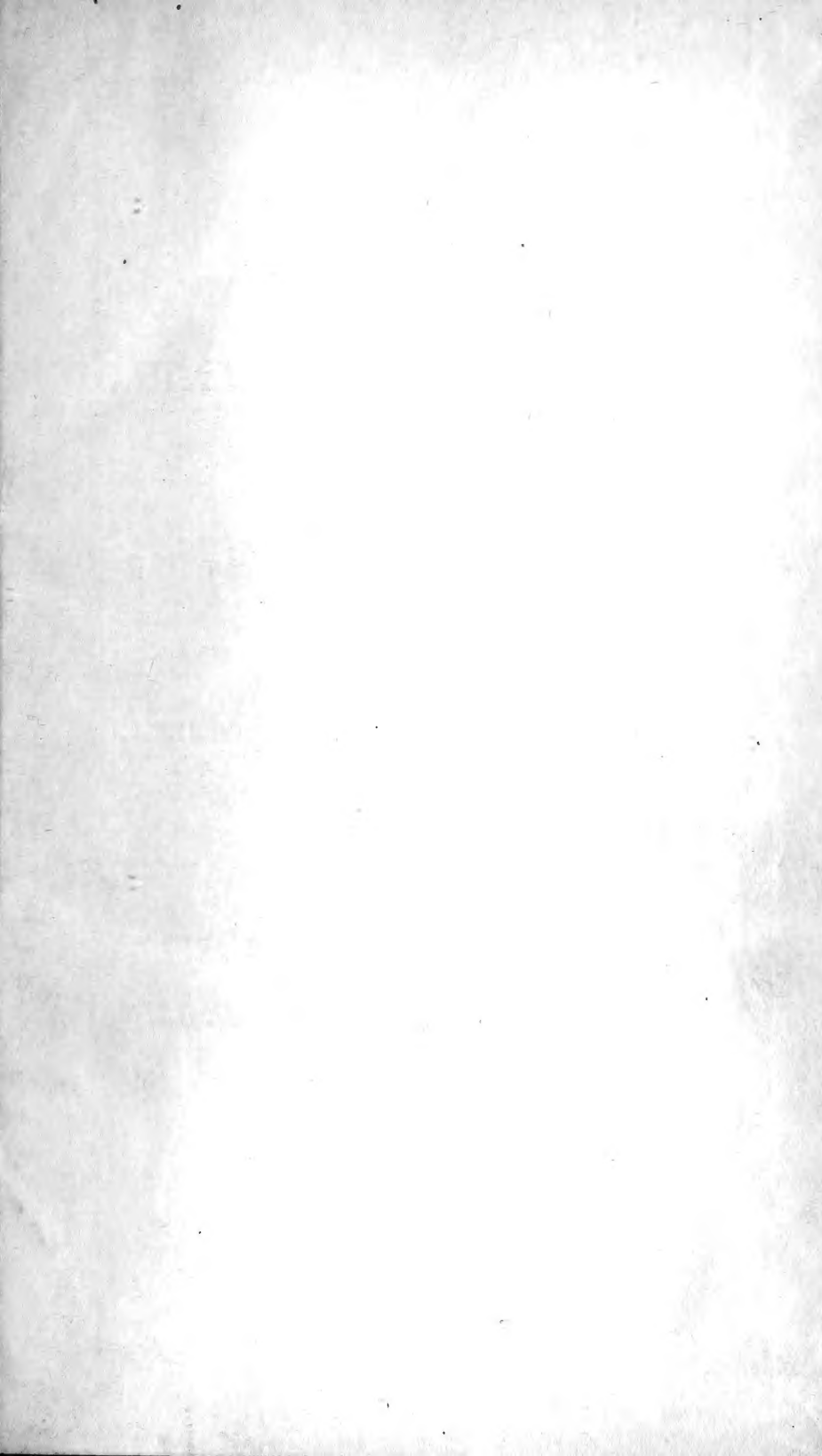
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Hitchcock

Catalogue of
plants growing in
of Amherst Coll.







T. F. Allen



CATALOGUE OF PLANTS

GROWING WITHOUT CULTIVATION

IN THE VICINITY OF AMHERST COLLEGE.

BY EDWARD HITCHCOCK,

Professor of Chemistry and Natural History in Amherst College.

PUBLISHED BY THE JUNIOR CLASS IN THAT INSTITUTION.

AMHERST:

J. S. AND C. ADAMS, AND CO.....PRINTERS.

1829.

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Amherst College, July 1, 1829.

TO PROF. E. HITCHCOCK,

Respected Sir,—Understanding that you have prepared in manuscript a catalogue of the plants, which are found in the vicinity of this place, the members of the Junior class, now attending your lectures on the subject of botany, in the belief that their knowledge of the science, and the interest of their botanical tours, may be increased by the possession of such a work, request your consent to the favour of its publication.

Yours with respect,

Samuel G. Appleton, William Arms, Abijah R. Baker, Mark Carpenter, Alvan W. Chapman, Samuel W. Clark, Henry H. Coolidge, Charles C. Corss, George Eastman, Henry E. Eastman, Ephraim Fobes, Thomas L. Furber, Horatio B. Hackett, Job Hall, David A. Hayes, Israel Hills, George L. Holmes, H. Augustus Homes, Daniel M. Lord, Charles Maxwell, James L. Merrick, Stephen C. Millet, Ephraim R. Nelson, M.H. Niles, James Parsons, Ezekiel Y. Peck, Oliver P. Powers, Thomas R. Rawson, B. Schneider, Gideon E. Searl, M. Parsons Stickney, Abner Taylor, Abijah R. Thayer, W. S. Tyler, Almond Underwood, Lawrence H. Van Dyck, John Wade, Jr. Francis Warriner, Reed Wilkinson, Bradford D. Willis.



PREFATORY.

THIS Catalogue embraces all the indigenous and naturalized plants, that have been discovered and ascertained, within forty or fifty miles of Amherst College. To these I have added such as are peculiar to the White Mountains and the sea coast of New England; so that if the young gentlemen, whose disposition to promote the interests of science appears so favourably in the publication of this catalogue, shall hereafter be located in any part of the northern section of the United States, they may have a pretty complete list of the plants growing in their vicinity. The particular uses of such a Catalogue as this, are, first, to facilitate the student's examination of plants, by pointing him to those species which he may expect to find in his district, and whose descriptions, therefore, he may select in the Floras, Compendiums, and Manuals of American plants: secondly, it presents him at once with an authority for each specimen, with the most important synonyms; and thus saves him the very great labour of comparing together the descriptions given by different writers: a work which severely tasks the powers of the most accomplished botanist. Thirdly, in the case of rare plants, it points the student to the particular places in this vicinity where he may find them. And finally, it may serve as a very convenient index to an Herbarium; since, for this purpose, it is only necessary to mark with a pencil, against the name of a plant in the Catalogue, the page of the Herbarium where a specimen of it is placed.

It is not less than twelve years since an examination of the plants of this vicinity was begun. Among my early coadjutors in this work, I cannot omit to mention Prof. Stephen W Williams of Deerfield, and Dr. Dennis Cooley, formerly of the same place. The herbarium of the latter, collected and arranged with great industry, contains nearly all the plants hitherto found in this district. I am also indebted to several gentlemen of distinguished ability, for much assistance in the determination of species: particularly to Rev. Chester Dewey, Principal of the Gymnasium in Pittsfield, in the difficult genus *Carex*: to Prof. Lewis C. Beck of Albany, in the Filices and Musci: and to Prof. John Torrey of New York, in almost every part of the subject, especially the Grasses and the Class Cryptogamia.

Exclusive of the plants peculiar to the White Hills and the sea coast, and a few others mentioned on account of their being rare and interesting, this Catalogue contains FIVE HUNDRED AND THIRTY ONE GENERA, AND FOURTEEN HUNDRED AND FORTY SEVEN SPECIES, which occur within fifty miles of Amherst. Of these, *one Hundred and Thirty Six Genera*, and *Four Hundred and Fifty Species*, belong to the Class Cryptogamia. Of course, the phenogamous plants amount to *Th ee Hundred and Ninety Five Genera*, and *Nine Hundred and Ninety Seven Species*. Undoubtedly many more remain to be discovered in this district, which appears to be unusually rich in vegetable productions, for this latitude. Indeed, every week's delay in the printing of this catalogue, has added to the number of species it contains. In the class Cryptogamia, especially, it cannot be doubted, that with proper skill in this difficult department of botany, ample leisure, and the requisite works, (so difficult to be obtained in this country) the number of species might be greatly increased, if not doubled. Probably too, some corrections in this part of the Catalogue would thus be made: since the species in this class cannot be considered, in general, so well established as those of the other classes.

Amherst, August 1, 1829.

ABBREVIATIONS.

? Indicates a doubt as to the species.

§ Prefixed to those plants that have been introduced or naturalized.

Names of Botanical writers.

| | |
|-----------|------------------------|
| Ait. | for Aiton. |
| Brid. | — Bridel. |
| Big. | — Bigelow. |
| R. Br. | — R. Brown. |
| Bull. | — Bullard. |
| De.Cand. | — Decandolle. |
| Dicks. | — Dickson. |
| Dill. | — Dillenius. |
| Ehrh. | — Ehrhart. |
| Ell. | — Elliott. |
| Fr. | — Fries. |
| Hall. | — Haller. |
| Hedw. | — Hedwig. |
| l'Herit. | — l'Heritier. |
| Hook. | — Hooker. |
| Hoffm. | — Hoffman. |
| Jacq. | — Jacquin. |
| Lamb. | — Lambert. |
| L. | — Linnaeus. |
| Lmk. | — Lamarck. |
| Mx. | — Michaux. |
| Mx. f. | — Michaux filius. |
| Muhl. | — Muhlenberg. |
| Nutt. | — Nuttall. |
| P. de B. | — Palisot de Beauvois. |
| Pers. | — Persoon. |
| Ph. | — Pursh. |
| Salis. | — Salisbury. |
| Schaeff. | — Schaeffer. |
| Schk. | — Schkuhr. |
| Schrad. | — Schrader. |
| Schreb. | — Schreber. |
| Schw. | — Schweinitz. |
| Sibth. | — Sibthorp. |
| Sm. | — Smith. |
| Spreng. | — Sprengel. |
| Sw. | — Swartz. |
| Tor. | — Torrey. |
| Tourn. | — Tournefort. |
| Vent. | — Ventenat. |
| Walt. | — Walter. |
| Wang. | — Wangenheim. |
| Web. & M. | — Weber & Mohr. |
| W. | — Willdenow. |

CATALOGUE.

PART I.

PHENOGAMOUS PLANTS.

- 1 Acalypha L. *A. Euphorbiaceae - ang*
1 virginica L. *Three seeded Mercury.*
2. Acer L. *X*
1 dasycarpum Ehrh. *Silver Maple.*
X 2 pennsylvanicum L. *Striped Maple.*
X 3 rubrum L. *Red Maple.*
X 4 saccharinum L. *Sugar Maple, Rock Maple.*
X 5 spicatum Lmk. *montanum. Ait. Mountain Maple Bush.*
3. Acnida L.
1 cannabina L. *N. Haven. Water Hemp.*
- 4 Acorus L.
1 calamus L. *Calamus, Sweet Flag.*
- 5 Actaea L.
1 americana Ph. *Baneberry.*
X a alba Ph.
β rubra Ph.
- 6 Agrimonia L.
X 1 eupatoria L. *Agrimony.* *X*
- 7 Agropyron Gaertner.
1 repens Palisot de Beauvois. *Triticum repens L. Wheat Grass,*
Quake Grass.

8 *Agrostemma* L.§ 1 *githago* L. *Cockle*.9 *Agrostis* L. *Bent Grass*.1 *alba* L.2 *lateriflora* Mx.3 *longifolia*. Torrey.4. *sobolifera* Muhl.5. *virginica* L.6 *tenuiflora* Willd.7 *vulgaris* Sm. *Red Top*.10 *Aira* L.1 *flexuosa* L. *Hair Grass*.11 *Alchemilla* L.1 *alpina* L. Mountains of N. Hampshire.12 *Aletris* L.X 1 *farinosa* L. *False Aloe*. Amherst.13 *Alisma* L.X 1 *plantago* L. *Water Plantain*.14 *Allium* L.1 *canadense* L. *Meadow Garlic*.X 2 *tricoccum*? Ait.15 *Alnus* Willd.1 *glutinosa* L.X 2 *serrulata* Willd. *Alder*.16 *Alopecurus* L.1 *geniculatus* Muhl. *Floating Foxtail*.2 *pratensis* L. *Meadow Grass*. *Fox tail*.17 *Amaranthus* L.1 *hybridus* Willd.2 *oleraceus*? L. *Pot Amaranth*.18 *Ambrosia* L.X 1 *elatio* W. *Anakim*. *Hogweed*X 2 *trifida* W. *Wild Wormwood*.19 *Ammi* Mx.1 *capillaceum* Mx. N. Haven. *Bishop Weed*.

- 20 *Ampelopsis* Mx. *Meadow Vine Vitaceae* +
 1 *quinquefolia* Mx. *Cissus hederacea* Pers. False Grape.
- 21 *Amphicarpa* Elliott. *Glycine* L. +
 x 2 *monoica* W.
- 22 *Andromeda* L. +
 x 1 *calyculata* L. *Leather Leaf*.
 x 2 *hypnoides* L. *Moss Bush*. White Hills.
 x 3 *ligustrina* Muhl. *White Bush*
 x 4 *polifolia* L.
- 23 *Andropogon* L. +
 1 *furcatus* Muhl. *Forked Spike*. +
 2 *nutans* L. *Beard Grass*. +
 3 *purpurascens* Muhl.
- 24 *Anemone* L. +
 x 1 *nemorosa* L. *Low Anemone*. +
 x 2 *thalictroides* L. *Rue Anemone*.
 x 3 *virginiana* L. *Wind Flower*.
- 25 *Angelica* L. *umbelliferae*
 1 *atropurpurea* L. *Angelica triquinata* Big. +
- 26 *Anthemis* L. *maritima - comp.* +
 x 1 *cotula* L. *May Weed*. +
- 27 *Anthoxanthum* L.
 1 *odoratum* L. *Sweet Vernal Grass*.
- 28 *Antirrhinum* L.
 x 1 *canadense* W. *Flax Snap Dragon*.
 x 2 *linaria* L. *Snap Dragon*.
- 29 *Apargia* W. *Scantled*
 1 *autumnalis* W. Northborough. False Hawkweed.
- 30 *Apios* Moench.
 x 1 *tuberosa* Moench. *Glycine apios* L. Ground Nut.
- 31 *Aplectrum* Nutt.
 x 1 *hyemale* N. *Cymbidium hyemale* W. Adam and Eve. Putty
 Root. Conway.
- 32 *Apocynum* L.
 x 1 *androsaemifolium* L. Dog Bane.
 2 *cannabinum* Mx. *pubescens* R. Brown. Indian Hemp.

X 3 hypericifolium Ait John's dog Bane.

33 Agulegia L.

X 1 canadensis L. Columbine.

34 Arabis L.

X 1 falcata Mx. canadensis W.

2 hastata L. pendula Nutt?

3 hirsuta Smith.

35 Aralia L.

1 hispida Mx. Bristly Stem Sarsaparilla.

X 2 nudicaulis L. Wild Sarsaparilla.

X 3 racemosa L. Spikenard.

36 Arbutus L.

Arctostaphylos

1 uva—ursi L. Bear Berry.

37 Arctium L.

Lappa major

+ 1 lappa L. Burdock.

38 Arenaria L.

X 1 glabra Mx. White Hills.

2 lateriflora W. Sand Wort. Springfield.

X 3 stricta Mx.

39 Arethusa R. Brown.

X 1 bulbosa Swartz. Belchertown.

40 Aristida L.

1 dichotoma Mx. Beard Grass.

2 racemosa Muhl.

41 Aronia Pers.

1 botrypium Pers. *Pyrus botrypium* W. Shad Bush.

2 arbutifolia Pers. *Pyrus melanocarpa* W. Red Choak Berry.

3 ovalis Pers. Medlar Bush.

42 Arrhenatherum Beauv.

§? 1 avenaceum P. de B. *Avena elatior* L.

43 Artemesia L.

1 canadensis Mx. Wild Wormwood. Sugar Loaf.

§ 2 vulgaris L. Garden Wormwood. High hills west of Connecticut River.

44 Arum L.

1 dracontium W. Green Dragon. Deerfield.

X 2 triphyllum L. *Indian turnip, Wild turnip, Wake Robin.*

45 Arundo L.

1 agrostoides Ph.

X 46 Asarum L.

1 canadense L. *Wild Ginger.*

X 47 Asclepias L. *Milk Weed.*

X 1 incarnata L.

X 2 phytolaccoides Lyon. *exaltata Muhl.*

X 3 purpurascens Walt. *obtusifolia Mx.*

X 4 quadrifolia Jacquin.

X 5 syriaca L.

X 6 tuberosa L. *Pleurisy Root, Butterfly Weed.*

7 variegata L.

X 8 verticillata L. *Sugar Loaf.*

9 viridiflora Ph. *Leicester.*

48 Asparagus L.

X § 1 officinalis L. *Asparagus.*

49 Aster L. *Star Flower.*

1 acuminatus Mx.

2 amygdalinus Mx. *umbellatus Ait.*

3 conyzoides W. *Marylandicus. Mx.*

X 4 cordifolius L.

X 5 corymbosus Ait.

6 cyaneus Hoff.

X 7 divergens W.

8 diversifolius Mx. *Patens W.*

9 dumosus? W.

10 linariifolius W.

X 11 macrophyllus Ait.

12 multiflorus W.

X 13 mutabilis W.

14 Novi—Angliae L.

15 Novae—Belgii L.

X 16 puniceus L.

17 rigidus W.

18 salicifolius W.

19 solidaginoides W.

- 20 *trascanti* W.
- 21 *undulatus* W. *amplexicaulis* Mx.
- 50 *Atragene* L. *clavata*
- ✕ 1 *americana* Sims. Mount Holyoke.
- 51 *Atriplex* L.
- 1 *patula* L. Salt marshes. Boston.
- 52 *Azalea* L.
- 1 *lapponica* L. White Hills.
- ✕ 2 *nudiflora* L. *Honeysuckle*.
- 3 *procumbens* L. White Hills.
- ✕ 4 *viscosa* S. *White Honeysuckle*.
- B.
- 53 *Baptisia* Ventenat.
- ✕ 1 *tinctoria* R. Brown. *Wild Indigo*.
- 54 *Barbarea*. R. Brown.
- 1 *vulgaris* R. B. *Erysimum barbarea* L. *Water Radish*.
- 55 *Bartonia* Muhl.
- 1 *paniculata* Mx. *Screwstem*.
- 56 *Bartsia* L. *Castilleja*
- ✕ 1 *coccinea* L. *Painted Cup*.
- 2 *pallida* L. White Hills.
- 57 *Berberis* L.
- ✕ 1 *vulgaris* Mx. *Barberry*.
- 58 *Betula* L.
- 1 *excelsa* Ait. *Yellow Birch*.
- 2 *lenta* W. *Black Birch*.
- 3 *nana* L. *Dwarf Birch*. White Hills.
- 4 *papyracea* W. *Canoe Birch*.
- 5 *populifolia* Ait. *White Birch*.
- 59 *Bidens* L.
- 1 *chrysanthemoides* W. *Daisy Beggar Ticks*.
- 2 *connata* W.
- 3 *bipinnata* L. Wallingford Ct.
- 4 *frondosa* L.
- 60 *Blitum* L.
- 1 *capitatum* L. *Strawberry Blite*. Rare.

61 *Boehmeria* W.1 *cylindrica* L. *False Nettle.*62 *Brassica* L.§ 1 *napus* L. *Kale or Cole.*63 *Bromus* L.1 *ciliatus* L.*canadensis* Mx.2. *pubescens* Muhl. *Broom Grass.*3 *secalinus* L. *Chess.*4 *mollis*? L.

C.

64 *Cactus* L. *Prickly Pear.*1 *opuntia* L. East Rock, New Haven.65 *Cakile* Ph.1 *maritima* Ph. *Bunias maritima.* Sea Rocket. N. Haven.66 *Calla* L.1 *palustris* L. *Water Arum.* Hadley.67 *Callitriche* L. *Water Chickweed.*1 *linearis* Ph.2 *verna* Muhl.68 *Calopogon* Brown.1 *pulchellus* Br. *Cymbidium pulchellum* Swartz. Grass Pink.69 *Caltha* L. *Cowslip.*1 *palustris* W.70 *Campanula* L.1 *aparinoides* Ph. *Prickly Bell Flower.*2 *perfoliata* L. *Clasping Bell Flower.*3 *rotundifolia* L. *Hair Bell.*71 *Cardamine* L.1 *pennsylvanica* W. *Water Cress.*2 *rotundifolia* Mx. White Hills.3 *virginica* W. Pittsfield.72 *Carex* L.1 *acuta* L.2 *alba* Haenke. Pownal, Vt.3 *ampullacea* Good. Deerfield.

- 4 *anceps* Schkuhr.
- 5 *blanda* Dewey. Berkshire County.
- 6 *bromoides* Schk.
- 7 *bullata* Schk.
- 8 *Buxbaumii* Wahl. Near the College.
- 9 *caespitosa* L.
- 10 *cephalophora* W.
- 11 *collecta* Dewey. Worthington.
- 12 *conoidea* Schk. Near the College.
- 13 *crinita* Lamb.
- 14 *cristata* Schw.
- 15 *curta* Good.
- 16 *Davisii* Dewey.
- 17 *Deweyana* Schw.
- 18 *disperma* Dewey.
- 19 *festucea* Schk.
- 20 *filiiformis* Gooden. South Parish, Amherst.
- 21 *flava* L. Plainfield.
- 22 *flexuosa* Schk.
- 23 *folliculata* L.
- 24 *formosa* Dewey.
- 25 *gracillima* Schw.
- 26 *granularis* Muhl.
- 27 *Halseyana* Dewey. Westfield.
- 28 *hirsuta* W.
- 29 *Hitchcockiana* Dewey. Williamstown.
- 30 *hystericina* W.
- 31 *lacustris* W.
- 32 *lagopodioides* Schk.
- 33 *laxiflora* Lam.
- 34 *limosa* L. Ashfield.
- 35 *longirostris*. Torrey.
- 36 *lupulina* Muhl.
- 37 *marginata* Muhl.
- 38 *miliacea* Muhl.
- 39 *Muhlenbergii* Schk. Stockbridge.
- 40 *multiflora* Muhl.
- 41 *Novae—Angliae* Schw.
- 42 *oligocarpa* Schk. Amherst.

- 43 *pallescens* L.
- 44 *paniculata* Mich.
- 45 *pauciflora* Schk. Ashfield.
- 46 *pedunculata* Muh.
- 47 *pellita* Muhl.
- 48 *plantaginea* Lam.
- 49 *polytrichoides* Muhl.
- 50 *pseudo-cyperus* L.
- 51 *pubescens* Muhl.
- 52 *pyriformis* Schw. Berkshire Co.
- 53 *retroflexa* Muhl.
- 54 *rosea* Shk.
- 55 *scabrata* Schw.
- 56 *scirpoides* Schk.
- 57 *scoparia* Schk.
- 58 *siccata* Dewey. Westfield.
- 59 *squarrosa* L. Hadley.
- 60 *sellulata* Schreb.
- 61 *sterilis* W.
- 62 *stipata* Muhl.
- 63 *straminea* W.
- 64 *stricta* Good. Williamstown.
- 65 *sylvatica* Huds. Leyden.
- 66 *tenera* Dewey.
- 67 *tentaculata* Muhl.
- 68 *teretiuscula* Good.
- 69 *tetanica* Schk. Stockbridge.
- 70 *Torreyana* Dewey. Sheffield.
- 71 *trichocarpa* Muhl.
- 72 *trisperma* Dewey.
- 73 *umbellata* Schk.
- 74 *varia* Muhl.
- 75 *vesicaria* L.
- 76 *vestita* W.
- 77 *virescens* Muhl.
- 78 *xanthophysa* Wahl. Hadley and Sunderland.
- 73 *Carpinus* L.
 - 1 *americana* W. Hornbeam.
- 74 *Carya* Nutt. *Juglans* L.

1. amara Mx. *Bitter Nut.*
 2. porcina Mx. fl. *Pig Nut.*
 - 3 squamosa Mx. fl. *Shag Walnut*
- 75 *Cassia* L.
1. chamaecrista L. *Partridge Pea.* Connecticut.
 - 2 marilandica L. *Wild Senna.*
 - 3 nictitans L. *Hadley Meadows.*
- 76 *Castanea.* Tourn.
- 1 americana Mx. *Chesnut.*
- 77 *Caulophyllum* Mx.
- 1 thalictroides Mx. *Poppoose Root.*
- 78 *Ceanothus* L.
- 1 americanus L. *New Jersey Tea.*
- 79 *Celastrus* L.
- 1 scandens L. *False Bittersweet.*
- 80 *Celtis* L.
- 1 occidentalis L. *Nettle Tree.* Sugar Loaf.
- 81 *Centaurea* L.
- § 1 nigra L. *Hardwick.*
- 82 *Cephalanthus* L.
- 1 occidentalis L. *Button Bush.*
- 83 *Cerastium* L.
- 1 oblongifolium. Torrey—Mountains in Mass. *Dewey.*
 - 2 tenuifolium Ph.
 - 3 vulgatum L. *Chickweed.*
- 84 *Chara* L. In ponds.
- 1 flexilis W.
 - 2 foliosa W.
 - 3 vulgaris L. *Feather Beds.*
- 85 *Chelidonium* L.
- 1 majus W. *Celandine.*
- 86 *Chelone* L.
- 1 glabra L. *Snake Head.*
- 87 *Chenopodium* L.
- 1 album L. *Pig Weed.*
 - 2 botrys L. *Oak of Jerusalem.*

- 3 hybridum L.
- 4 maritimum L. N. Haven.
- 5 rubrum L. *Rusty Pigweed.*
- 88 Chimaphila Ph. *Pyrola L.*
 - 1 maculata Ph. *Spotted Winter Green.*
 - 2 umbellata Nutt. *Prince's Pine, Winter green.*
- 89 Chrysanthemum L.
 - 1 leucanthemum L. *Ox-eyed Daisy.*
- 90 Chrysosplenium L.
 - 1 oppositifolium L. *Golden Saxifrage.*
- 91 Cichorium L.
 - 1 intibus L. *Succory. Endive.*
- 92 Cicuta L.
 - 1 bulbifera L.
 - 2 maculata L.
- 93 Cimicifuga L.
 - 1 serpentaria Ph. *Cohosh, Bug Bane, Connecticut.*
- 94 Cinna L.
 - 1 arundinacea W. *Indian Reed.*
- 95 Circaea L. *Enchanter's Nightshade.*
 - 1 alpina L.
 - 2 lutetana L. *β. canadensis.*
- 96 Cistus L.
 - 1 canadensis L. *Rock Rose.*
 - 2 corymbosus L.
- 97 Claytonia Gronovius.
 - 1 virginica L. *Spring Beauty.*
- 93 Clematis L.
 - 2 virginica L. *Virgin's Bower.* X
- 99 Clethra L.
 - 1 alnifolia L. *Spiked Alder. Worcester.*
- 100 Clinopodium L.
 - 1 vulgare L. *Field Thyme.*
- 101 Cnicus W.
 - 1 altissimus W.
 - 2 arvensis Pers. *Canada Thistle.*

- 3 discolor Muhl.
- 4 lanceolatus W. *Common Thistle.*
- 5 muticus Ph.
- 102 Cochlearia L.
 - § 1 armoracia L. *Horse Radish.*
- 103 Collinsonia L.
 - 1 canadensis L. *Horse Balm.*
- 104 Comptonia Gaert.
 - 1 asplenifolia Ait. *Sweet Fern.*
- 105 Conium L.
 - 1 maculatum L. *Poison Hemlock.*
- 106 Convallaria L.
 - 1 bifolia L.
 - 2 multiflora L. *Solomon Seal.*
 - 3 pubescens W.
 - 4 racemosa L.
 - 5 stellata L.
 - 6 trifolia L. *Cummington.*
 - 7 umbellulata Mx. *Lily of the Valley.*
- 107 Convolvulus L.
 - 1 sepium L. *Field Bind Weed.*
 - 2 stans Mx. *Dwarf Morning Glory.* Amherst and Granby.
- 108 Conyza L.
 - 1 camphorata Muhl. *Marsh Flea Bane.* N. Haven.
- 109 Coptis Salisbury.
 - 1 trifolia Salis. *Gold Thread*
- 110 Corallorhiza Haller. *Cymbidium W.*
 - 1 odontorrhiza W. *Coral Teeth.*
- 111 Cornus L.
 - 1 canadensis. L. *Dogwood.* *Cornel.*
 - 2 circinnata P'Her.
 - 3 florida L. *False Box.* *Dogwood.*
 - 4 paniculata P'Her.
 - 5 sericea P'Her.
- 112 Corydalis Vent.
 - 1 cucullaria Pers. *Colic Weed.*

2 *formosa* Ph. Cummington.

3 *fungosa* Pers. *Climbing Colic Weed.* Rare.

4 *glauca* Ph.

113 *Corylus* L.

1 *americana* Wang. *Hazel Nut.*

2 *rostrata* W. *Beaked Hazel Nut.*

114 *Crataegus* L.

1 *coccinea* L. *Thorn Bush.*

2 *punctata* Jacq.

115 *Crotolaria* L.

1 *sagittalis* Mx. *Rattle Box.*

116 *Cucubalus* L.

1 *stellatus* L. Connecticut.

117 *Cuscuta* L.

1 *americana* L. *Dodder.*

118 *Cynoglossum* L.

§ 1 *officinale*. *Hound Tongue.*

2 *virginicum* L. Williamstown.

119 *Cyperus* L.

1 *caespitosus* Torrey.

2 *dentatus* Torrey.

3 *diandrus* Torrey.

4 *flavescens* L.

5 *mariscoides* Ell. *Scirpus cyperiformis* Muhl.

6 *poaeformis* Ph.

7 *strigosus* L.

8 *uncinatus* Ph. *Inflexus.* Mx.

120 *Cypripedium* L. *Ladies Slipper.*

1 *humile* W.

2 *pubescens* W.

3 *spectabile* W. Deerfield.

D.

121 *Dactylis* L.

1 *glomerata* L. *Orchard Grass.*

122 *Dalibarda* L.

1 *fragrarioides* Mx. [Halifax and Marlborough Vt.] *Conaropsis.* Rich. *fragrarioides* Decand. Prodrom. Vol. 2. p. 555.

- 2 repens Lmk. Greenfield.
- 123 *Danthonia*. Decand.
 1 spicata P. de B. *Wild Oats*.
 2 *Datura* L.
 3 stramonium L. *Thorn Apple*.
 ♂ tatula Torrey.
- 124 *Dentaria* L.
 1 diphylla Mx. *Tooth Root*.
 2 laciniata W. Deerfield.
- 125 *Dianthus* L.
 1 armeria L. *Pink*. Bank of the Ct. River East of Mt. Tom.
- 126 *Diapensia* L.
 1 barbulata Ell. White Hills.
 2 lapponica L. White Hills.
- 127 *Diervilla* Tourn.
 1 humilis Pers. *Bush Honeysuckle*.
- 128 *Digitaria* Walter.
 1 filiformis Ell.
 2 sanguinalis Scop. *Finger Grass*.
- 121 *Diospyros* L. *Persimon*.
 1 virginiana L. Near the light House, East Haven.
- 130 ♂ *Dipsacus*.
 1 sylvestris L. *Wild Teasel*. Sheffield.
- 131 *Dirca* L.
 1 palustris L. *Moose Wood, Leather Wood*.
- 132 *Drosera* L.
 1 longifolia L. Leverett.
 2 rotundifolia L. *Sun Dew*.
- 133 *Dryas* L.
 1 integritolia Vahl. White Hills.
- 134 *Dulichium* Rich.
 1 spathaceum Pers. *Galingale*.
- E.
- 135 *Eleusine* Gaert.
 1 indica Lamb. *Wire Grass, Dog Tail Grass*.

136 *Elymus* L.

- 1 canadensis L.
- 2 glaucifolius W.
- 3 hystrix L.
- 4 villosus L. *Wild Rye, Lime Grass.*
- 5 virginicus L.

117 *Empetrum* L.

- 1 nigrum L. *White Hills.*

138 *Epigaea* L.

- 1 repens L. *Trailing Arbutus.*

139 *Epilobium* L.

- 1 alpinum L. *White Hills.*
- 2 coloratum Muhl.
- 3 lineare Muhl. *rosmarinifolium* Ph.
- 4 molle Torrey.
- 5 spicatum Lam. *Willow Herb.*

140 *Epiphagus* Nutt. *Orobanche* L.

- 1 virginiana Nutt. *Beech Drops, Cancer Root.*

141 *Erigeron* L.

- 1 bellidifolium W.
- 2 canadense L. *Flea Bane.*
- X 3 heterophyllum Muhl.
- X 4 philadelphicum L.
- 5 purpureum Ait.

X 7 *strigosum* ? Muhl.142 *Eriocaulon* L.

- 1 gnaphalioides Mx. *Sheffield.*
- 2 pellucidum Mx. *Pipe Wort.*

143 *Eriophorum* L.

- 1 alpinum L. *White Hills.*
- 2 cespitosum Ph. *Stockbridge.*
- 3 polystachium L.
- 4 virginicum L. *Cotton Grass.*

144 *Erysimum* L.

- 1 officinale L. *Sisymbrium officinale. Hedge Mustard.*

145 *Erythronium* L.

- 1 dens canis Mx. *Dog Tooth Violet, Adder's Tongue.*

146 *Eupatorium* L.

- 1 *ageratoides* W.
- 2 *perfoliatum* L. *Thorough Wort.*
- 3 *purpureum* L. *Joe Pye.*
- 4 *teucrifolium*? L.
- 6 *verticillatum* W. *Joe Pye Weed.*

147 *Euphorbia* L.

- 1 *depressa* Torrey. *maculata* W. *Spotted Spurge.*
- 2 *hypericifolia* W. *maculata* L. *Spurge.*
- 3 *polygonifolia*. *New-Haven.*

F.

148 *Fagus* L.

- 1 *ferruginea* Ait. *Beech.*

149 *Festuca* L.

- 1 *elatior* L. *Fescue Grass.*
- 2 *nutans* W.
- 3 *tenella* W.

150 *Fragraria* L.

- 1 *virginiana* L. *Strawberry.*

151 *Fraxinus* L.

- 1 *americana* W. *White Ash.*
- 2 *juglandifolia* W. *Swamp Ash, Red Ash.*
- 3 *sambucifolia* W. *Black Ash.*

152 *Fumaria* L.

- § 1 *officinalis* L. *Fumitory.*

G.

153 *Galega* L.

- 1 *virginiana* L. *Tephrosia virginiana* Ph. *Goat's Rue.*

154 *Galeopsis* L.

- 1 *tetrahit* L. *Flowering Nettle.*

155 *Galium* L.

- 1 *aparine* L.
- 2 *asprellum* Mx. *Rough Bed Straw.*
- 3 *boreale* L.
- 4 *circaezans* Mx.
- 5 *lanceolatum* Torrey

- 6 pilosum Ait.
- 7 tinctorium L. *Dyer's Cleavers.*
- 8 trifidum L. *Bed Straw.*
- 9 triflorum Mx.

156 Gaultheria L.

- 1 procumbens L.

157 Gentiana L.

- 1 crinita L.
- 2 quinquefolia L. *Hoosak Mt.*
- 3 saponaria L. *Soap Gentian.*

158 Geranium L.

- 1 maculatum L. *Crow Foot Geranium.*
- 2 Robertianum L. *Herb Robert.*

159 Gerardia L.

- 1 glauca Eddy. *Fox Glove.*
- 2 flava L.
- 3 maritima Nutt. *Salt marshes, N. Haven.*
- 4 pedicularia L.
- 5 purpurea L.

160 Geum L.

- 1 Peckii Ph. *White Hills.*
- 2 rivale L. *Purple Avens.*
- 3 strictum Ait. *Upright Avens.*
- 4 virginianum L. *Avens.*

161 Glechoma L.

- 1 hederacea L. *Gill-grow-by-the-ground.*

162 Glyceria R. Brown.

- 1 fluitans R. B. *Festuca fluitans L. Water Fescue.*
- 2 acutiflora Torrey.

163 Gnaphalium L.

- 1 decurrens Ives.
- 2 margaritaceum L. *Life Everlasting.*
- 3 plantagineum L. *Do.*
- 4 polycephalum Mx. *Sweet Scented Do.*
- 5 purpureum W.
- 6 uliginosum L.

164 *Goodyera* R. Brown.

- 1 pubescens W. *Neottia pubescens* L. *Rattle Snake Leaf*.

165 *Gratiola* L.

- 1 aurea Muhl. *Hedge Hyssop*.
2 virginica L. *neglecta* Torrey. Do.

166 *Gyromia* Nutt.

- 1 virginica N. *Medeola virginica* L. *Indian Cucumber*.

H.

167 *Habenaria* R. Brown. *Orchis* L. *Orchis*.

- 1 blephariglottis Hooker.
2 bracteata R. Brown. *Satyrion bracteatum* Ph.
3 ciliaris R. Brown.
4 dilatata Hooker.
5 herbiola R. Br.
6 incisa? Spreng.
7 fimbriata R. Br.
8 orbiculata Hooker.
9 psycodes Spreng.

168 *Hamamelis* L.

- 1 virginica L. *Witch Hazel*.

169 *Hedeoma* Pers.

- 1 pulegioides Pers. *Penny Royal*.

170 *Hedysarum* L.

- 1 acuminatum Mx.
2 bracteosum Mx.
3 canadense L. *Bush Trefoil*.
4 nudiflorum L.
5 obtusum W.
6 paniculatum W.
7 rotundifolium Mx.
8 viridiflorum L.

171 *Helianthus* L.

- 1 altissimus? L.
2 decapetalus L.
3 mollis? W.
4 trachelifolius W.
§ 5 tuberosus L. *Artichoke*.

172 *Helonias* L.1 dioica Ph. *Blazing Star*. Great Barrington.173 *Hemerocallis* L.§ 1 fulva L. *Day Lily*.X 174 *Hepatica* W.1 triloba W. *Liverleaf, Liverwort*.175 *Heracleum* L.1 lanatum Mx. *Cow Parsnip*.176 *Hieraceum* L.

1 gronovii L.

2 kalmii.

3 marianum W.

4 pauciculatum L.

5 venosum L. *Hawkweed*.177 *Holcus*.1 alpinus Wahl. *White Hills*.178 *Hordeum*.1 Jubatum Ait. *Marshes, Boston*.179 *Hottonia* L.1 inflata L. Between New Bedford, Mass. and Tiverton, R.
Island. Also at Milton and Dorchester.180 *Houstonia* L.1 coerulea L. *Venus's Pride*.181 *Humulus* L.1 lupulus L. *Hop*.182 *Hydrocotyle* L.

1 americana L.

183 *Hydropeltis* Mx.1 purpurea Mx. *Water Shield*.184 *Hydrophyllum* L.1 canadense L. *Windsor*. Dr. Porter.2 virginicum L. *Water Leaf*.185 *Hyoscyamus* L.1 niger L. *Henbane*.186 *Hypericum* L.

1 angulosum Mx.

2 ascyroides W. *St. John's Wort*.

- 3 canadense L.
- 4 corymbosum W.
- 5 cystifolium Lmk. Amherst, Williamsburgh, &c.
- 6 parviflorum W.
- 7 perforatum L. *St. John's Wort.*
- 8 sarothra Mx. *Sarothra gentianoi des L.*
- 9 virginicum L. *Elodea campanulata Ph.*
- 187 Hypoxis L.
 - 1 erecta L. *Star Grass.*
- 188 Hyssopus L.
 - 1 nepetoides W. *Giant Hyssop.* Deerfield.

I.
- 189 Iléx L.
 - 1 canadensis Mx. *Mountain Holly.*
 - 2 opaca Ait. *Evergreen Holly.* Quincy, Cohasset.
- 190 Impatiens L.
 - 1 biflora Walt. *Jewel Weed.*
 - 2 nolitangere Ph. *Touch-me-not.* Probably both these are the same species.
- 191 Inula L.
 - 1 helenium L. *Elecampane.*
- 192 Iris L.
 - 1 versicolor L. *Wild Iris.* *Fleur de Luce,*
 - 2 virginica L. N. Haven.
- 193 Isanthus Mx.
 - 1 coeruleus Muhl. *False Pennyroyal.*
- 194 Isnardia L.
 - 1 palustris L. *Water Purslane.*
- 195 Iva. L.
 - 1 frutescens. L. *High Water Shrub.* N. Haven.

J.
- 196 Juglans Nutt.
 - 1 cinerea L. *Butternut.*
 - § 2 nigra L. *Black Walnut.*
- 197 Juncus L.
 - 1 acuminatus Mx.
 - 2 bufonius L.

3 *effusus* L. *Rush Grass.*

4 *nodosus* L.

5 *polycephalus* Mx.

6 *setaceus* Rostk.

7 *tenuis* W.

8 *trifidus* L. *White Hills.*

198 *Juniperus* L.

1 *communis* L. *Juniper.* East side of Mt. Tom.

2 *virginiana* Wang. *Red Cedar.*

K.

199 *Kalmia* L.

1 *angustifolia* L. *Sheep Laurel.*

2 *glauca* Ait. *Swamp Laurel.* Belchertown Pond.

3 *latifolia* L. *Laurel.*

200 *Koeleria* Pers.

1 *canescens* Torrey MS. Amherst.

2 *pennsylvanica* De Cand. Amherst, S. Parish.

3 *truncata* Torrey. β *major.* Deerfield.

201 *Krigia* W.

1 *amplexicaulis* Nutt. *Hyoseris amplexicaulis.* Mx.

2 *virginica* W. *Dwarf Dandelion.*

L.

202 *Lactuca* L.

1 *elongata* W. *Wild Lettuce.*

203 *Lamium* L.

1 *amplexicaule* L. *Hen Bit.* *Dead Nettle.* Rare.

204 *Laurus* L.

1 *benzoin* L. *Spice Bush.* *Fever Bush.*

2 *sassafras* L. *Sassafras.*

205 *Lechea* L.

1 *major* L. *Pin Weed*

2 *minor* L. Rare.

206 *Lecontia* Cooper.

1 *virginica* Tor. *Arum virginicum* W. *Poison Arum.* Belchertown Pond.

207 *Ledum* L.

1 *latifolium* Ait. *Labrador Tea.* Amherst. Rare.

208 *Leersia* Swartz.

- 1 *oryzoides* Sw.
- 2 *virginica* W. *Cut Grass.*

209 *Lemna* L.

- 1 *minor* L. *Duck Meat.*
- 2 *polyrrhiza* L. *Water Flaxseed.*
- 3 *trisulca* L. *Rare.*

210 *Leontodon* L.

- 1 *taraxacum* L. *Dandelion.*

211 *Leonorus* L.

- 1 *cardiaca* L. *Motherwort.*

212 *Leipidium* L.

- 1 *virginicum* L. *Wild Peppergrass.*

213 *Leptandra* Nutt.

- 1 *virginica* Nutt. *Culver's Physic.*

214 *Lespedeza* Mx.

- 1 *capitata* Mx.
- 2 *polystachia* Mx.
- 3 *procumbens* Mx.
- 4 *reticulata* Nutt.
- 5 *sessiliflora* Mx.
- 6 *violacea* Pers.

215 *Liatris* L.

- 1 *scariosa* W. *Gay Feather.* Hadley Meadows.

216 *Ligusticum* L.

- 1 *scoticum* L. *Salt Marshes,* Boston.

217 *Ligustrum* L.

- 1 *vulgare* L. *Prim.* On the road to Hadley.

218 *Lilium* L.

- 1 *canadense* L. *Nodding Lily.*
- 2 *philadelphicum* L. *Red Lily.*

219 *Lindernia* L.

- 1 *attenuata* Muhl. *False Hedge Hyssop.*
- 2 *monticola* Muhl. *White Hills.*

220 *Linnaea* Gron

- 1 *borealis* W. *Twin Flower.*

221 Linum L.

- 1 virginianum L. *Wild Flax.*

222 Liquidambar L.

- 1 styracilua L. *Sweet Gum.* Northampton, Eaton.

223 Liriodendron L.

- 1 tulipifera L. *Tulip Tree.* Deerfield.

224 Listera R. Brown. *Epipactis Sw.*

- 1 cordata Mx. Plainfield.

225 Lithospermum L.

- 1 maritimum Lehm. Sea Shore.

- 2 officinale L. Pittsfield.

226 Lobelia L.

- 1 cardinalis L. *Cardinal Flower.*

- 2 Dortmanna L. Belchertown and Shutesbury.

- 3 inflata L. *Wild Tobacco.*

- 4 Kalmii L. S. Hadley Canal.

- 5 pallida Muhl.

- 6 siphilitica L. Western part of Connecticut.

227 Lolium L.

- 1 perenne L. *Darnel Grass.*

228 Lonicera L.

- 1 hirsuta Eaton. Williamstown.

- 2 parviflora Lmk.

229 Ludwigia L.

- 1 alternifolia L. *Seed Box.*

230 Lupinus L.

- 1 perennis L. *Wild Lupine.*

231 Luzula W.

- 1 campestris W.

- 2 melanocarpa Desv. White Hills.

- 1 pilosa W. Halifax, Vt.

- 4 spicata De Cand. White Hills.

232 Lycopsis L.

- 1 arvensis L. Mill Hollow, Amherst; also at Hatfield, in the street.

233 Lycopus L.

- 1 europaeus Mx. *Water Horehound.*

2 virginicus L. *Bugle Weed.*

234 *Lysimachia* L.

1 capitata Ph.

2 ciliata Mx.

3 quadrifolia L.

4 racemosa Lmk. *Loose Strife.*

235 *Lythrum* L.

1 verticillatum L. *Swamp Willow Herb.* Sunderland.
M.

236 *Magnolia* L.

1 glauca L. *Beaver Tree. Swamp Laurel.* Gloucester,
Cape Ann; its most northern limit.

237 *Malaxis* Sw.

1 liliifolia Sw. *Twayblade.* Holyoke.

2 Loeselii Sw.

238 *Malva* L.

1 rotundifolia L. *Low Mallows.*

§ 2 sylvestris? L.

239 *Marrubium* L.

§ 1 vulgare L. *Horehound.*

240 *Medicago* L.

1 lupulina L. Cummington. Dr. Porter.

241 *Melampyrum* L.

1 americanum Mx. *Cow Wheat.*

242 *Menispermum* L.

1 canadense L. *Moonseed.* School Meadow, Hadley.

243 *Mentha* L.

1 borealis Mx. *Horse Mint.*

§ 2 piperita Sm. *Peppermint.*

§ 3 viridis Walter. *Spear Mint.*

244 *Menyanthes*.

1 trifoliata L. *Buckbean.* Amherst and Hawley.

245 *Menziesia* Sm.

1 coerulea Sw. White Hills.

246 *Microstylis* Nutt. *Malaxis* Sw.

1 ophioglossoides Nutt. *Adder Mouth.* Deerfield.

247 Mikania W.

- 1 scandens W. *Climbing Thorough Wort.* Amherst.

248 Mimulus L.

- 1 alatus L. Amherst.
2 ringens L. *Monkey Flower.*

249 Mitchella L.

- 1 repens L. *Checker Berry.*

250 Mitella L.

- 1 cordifolia Lamb. Pittsfield.
2 diphylla L. *Currant Berry.*

251 Mollugo L.

- 1 verticillata L. *Carpet Weed.*

252 Momordica L.

- 1 echinata W. School Meadow, Hadley.

253 Monarda L.

- 1 didyma L. Williamstown.
2 hirsuta Ph. Cummington.
3 oblongata Ait. Williamstown.

254 Monotropa L.

- 1 lanuginosa Mx.
2 uniflora L. *Birds Nest. Indian Pipe.*

255 Morus L.

- ♂? 1 rubra L. *Wild Mulberry.* Sugar Loaf. Deerfield.

256 Muhlenbergia Schreb.

- 1 erecta Schreb. *Brachyelytrum aristatum Beauv. Drop-seed Grass.*

257 Myosotis L.

- 1 arvensis Sibth. *Forget-me-not.*
2 virginiana L. *Rochelia virginiana R. & S.*

258 Myrica L.

- 1 cerifera L. *Bayberry.* Conway.
2 gale L. *Sweet Gale.* Belchertown.

259 Myriophyllum L.

- 1 verticillatum L. *Water Milfoil.*

N.

260 Najas L.

- 1 canadensis Mx. *Caulinia flexilis* W.
- 261 Nelumbium L.**
 1 luteum L. *Sacred Bean. Water Chinquapin.* Haddam. Ct.
 The largest flower in North America grows upon this plant, except that of *Magnolia macrophylla*.
- 262 Neottia Sw.**
 1 aestivalis Pers. *Ladies' Tresses.*
 2 cernua Sw. *Nodding Ladies' Tresses.*
- 263 Nepeta L.**
 1 cataria L. *Catmint. Catnip.*
- 264 Nuphar Sm.**
 1 advena Ait. *Yellow Water Lily.*
 2 kalmiana Ait.
- 265 Nymphaea L.**
 1 odorata Ait. *White Pond Lily.*
- 266 Nyssa L.**
 1 biflora W. *Sour Gum.*
 2 villosa Mx. *Pepperidge. Tupelo.*
 O.
- 267 Oenothera L.**
 1 biennis L. *Scabish. Tree Primrose.*
 × 2 pumila L.
- 268 Onopordum L.**
 1 Acanthium L. *Cotton Thistle.* East Parish, Amherst.
- 269 Onosmodium Mx.**
 1 hispidum Mx. *False Gromwell.* Guilford Vt.
- 270 Orchis L. (See *Habenaria*.)**
 1 spectabilis W. *Orchis.*
 2 tridentata W.
- 271 Orobanche L.**
 1 americana L. *Mt. Holyoke.*
 2 uniflora L. *Squaw Root. Cancer Root.*
- 272 Orontium L.**
 1 aquaticum L. *Golden Club.* Southwick. Dr. Porter.
- 273 Oryzopsis Mx.**
 1 asperifolia Mx. *Mountain Rice.* Mt. Holyoke.

274 *Ostrya Micheli*.

- 1 *virginica* W. *Iron Wood. Hop Horn Beam.*

275 *Oxalis* L.

- 1 *acetosella* L. *Wood Sorrel. Conway.*
 2 *stricta* Jacq. *Yellow Woodsorrel.*
 3 *violacea* L. *Amherst.*

276 *Oxycoccus* Pers.

- 1 *macrocarpus* Ph.
 2 *vulgaris* Pers.
 3 *hispidulus* Pers. *Gaultheria hispidula* Muhl.

P.

277 *Panax* L.

- 1 *quinquefolium* L. *Ginseng. Conway.*
 2 *trifolium* L. *Dwarf Ground Nut.*

278 *Panicum* L.

- 1 *acuminatum* Muhl.
 2 *agrostoides* Muhl.
 3 *capillare* L.
 4 *clandestinum* L.
 5 *crus-galli* L. *Barn Grass.*
 6 *dichotomum* L.
 7 *depauperatum* Muhl.
 8 *geniculatum* Muhl.
 9 *involutum* Torrey.
 10 *latifolium* L.
 11 *macrocarpon* Torrey.
 12 *nervosum* Muhl?
 13 *nitidum* Lmk.
 14 *virgatum* L.

279 *Parietaria* L.

- 1 *pennsylvanica* L. *Pellitory. Sugar Loaf.*

280 *Parnassia* L.

- 1 *caroliniana* Mx. *Parnassus Grass.*

281 *Paspalum* L.

- 1 *setaceum* Mx. *Paspalon Grass.*

282 *Pastinaca* L.

- § 1 *sativa* L. *Parsnip.*

283 *Pedicularis* L.

- 1 *canadensis* L. *Louse Wort.*
- 2 *pallida* Ph. W. Springfield.

284 *Penstemon* L.

- 1 *pubescens* W. Williamstown.

285 *Penthorum* L.

- 1 *sedoides* L. *Virginian Orpine.*

286 *Phalaris* L.

- 1 *americana* Ell. *Ribbon Grass. Wild Canary Grass.*

287 *Phleum* L.

- 1 *pratense* L. *Timothy Grass.*

288 *Phryma* L.

- 1 *leptostachia* L. *Lop Seed. Deerfield.*

289 *Physalis* L.

- 1 *obscura* Mx. *Henbane.*
- 2 *pennsylvanica*? L.

290 *Phytolacca* L.

- 1 *decandra* L. *Poke Weed.*

291 *Pinus* L.

- 1 *alba* Lamb. *Wild Spruce.*
- 2 *balsamea* W. *Fir Tree. Balsam.*
- 3 *canadensis* L. *Hemlock Tree.*
- 4 *microcarpa* Lamb. *Red Larch. Goshen. Dr. Porter.*
- 5 *nigra* Lamb. *Black Spruce.*
- 6 *pendula* Ait. *Hackmatack. Tamarack.*
- 7 *resinosa* Lamb. *Norway Pine. Deerfield.*
- 8 *rigida* L. *Pitch Pine.*
- 9 *strobus* L. *White Pine.*

292 *Piptatherum* Beauv.

- 1 *nigrum* Torrey. *Milium racemosum* Sm. *Clustered Millet Grass.*

293 *Pisum* L.

- 1 *maritimum* L. *Sea Pea. N. Haven.*

294 *Plantago* L.

- 1 *lanceolata* L. *Rib Wort. Amherst, S. Parish:*
- 2 *major* L. *Plantain.*
- 3 *maritima* L. *N. Haven.*

295 *Platanus* L.

- 1 *occidentalis* L. *Sycamore. Button Wood.*

296 *Poa* L.

- 1 *annua*? L.
 2 *aquatica* W. & *americana* Torrey.
 3 *canadensis* Torrey. *Briza canadensis* Mx.
 4 *capillaris* L.
 5 *compressa* L. *Blue Grass.*
 6 *dentata* Torrey.
 7 *elongata* Torrey. *Torrejana* Sprengel.
 8 *eragrostis*? L.
 9 *nemoralis* L.
 10 *hirsuta* Mx.
 11 *maritima* Muhl. *Salt Marshes, Cambridge.*
 12 *nervata* W. *Briza canadensis* Nutt. *non Mx.*
 13 *palustris* Muhl.
 14 *pectinacea* Mx. *Springfield.*
 15 *pratensis* L. *English Grass.*
 16 *reptans* Mx. *Whitmore's Ferry, Sunderland.*
 17 *trivialis* L.

297 *Podophyllum* L.

- 1 *peltatum* L. *May Apple. Amherst, S. Parish.*

298 *Podostemum* Mx.

- 1 *ceratophyllum* Mx. *Thread Foot. Ct. River.*

299 *Pogonia* Brown. *Arethusa* L.

- 1 *ophioglossoides* L. *Snake Mouth Arethusa.*
 2 *verticillata* L. *Deerfield.*

300 *Polygala* L.

- 1 *paucifolia* W. *Flowering Wintergreen.*
 2 *sanguinea* L.
 3 *veticillata* L. *Dwarf Snake Root.*

301 *Polygonum* L.

- 1 *amphibium* L. *Sudbury.*
 2 *arifolium* L. *Halbert Knotweed.*
 3 *articulatum* L. *Joint Weed.*
 4 *aviculare* L. *Knot Grass.*
 5 *cilinode* Mx.
 6 *convolvulus* L. *Bind Knot Weed.*
 7 *mite* Pers. *Tasteless Knotweed.*

- § 8 orientale L. *Princes Feather.*
 - 9 persicaria L. *Heart's Ease. Ladies' Thumb.*
 - 10 punctatum Ell. *Biting Knotweed.*
 - 11 sagittatum L. *Prickly Knotweed.*
 - 12 scandens L. *Climbing Buck Wheat.*
 - 13 tenue Mx. *Slender Knot Grass.*
 - 14 virginianum L.
 - 15 viviparum L. *White Hills.*
- 302 Polypogon Desfont.
- 1 glomeratus W. *racemosus Nutt.*
- 303 Pontederia L.
- 1 angustifolio Ph. *cordata* β *angusti Torrey. Leverett.*
 - 2 cordata L. *Pickernel Weed.*
- 304 Populus L.
- 1 angulata L. *Balm of Gilead. Cotton Wood.*
 - 2 balsamifera Wang. *Balsam Poplar.*
 - § 3 dilatata L. *Lombardy Poplar.*
 - 4 grandidentata Mx. *Poplar.*
 - 5 tremuloides Mx. *White Poplar. Aspen.*
- 305 Portulacca L.
- 1 oleracea L. *Purslane.*
- 306 Potamogeton L. *Pond Weed.*
- 1 compressum W.
 - 2 fluitans L.
 - 3 gramineum Mx.
 - 4 heterophyllum Schreb.
 - 5 natans L.
 - 6 pectinatum Sm. *Pittsfield.*
 - 7 perfoliatum L.
 - 8 setaceum Ph. *diversifolium Barton.*
- 307 Potentilla L.
- 1 argentea L. *Silver Five Finger.*
 - 2 canadensis L. *Five Finger.*
 - 3 confertiflora Torrey. *Geum agrimonoides Ph. Bootia sylvestris Bigelow.*
 - 4 fruticosa L. *Stockbridge.*
 - 5 norwegica L. *Cinquefoil.*
 - 6 palustris Scop. N. Haven. *Marsh Five Finger. Comarum palustre L.*

7 tridentata Ait. Hoosak Mountain.

308 Pothos Mx. *Dracontium L. Ictodes Big. Sym-
plocarpus Salisbury.*

1 foetida Mx. *Skunks Cabbage.*

309 Pragnites Trinnius.

1 communis Trinn. *Marsh Reed Grass. Amherst, S. Parish.
Arundo Pragnites W.*

310 Prenanthes L.

1 alba L. *White Lettuce.*

2 altissima L.

3 cordata W.

4 virgata Mx. *Pittsfield, Eaton.*

311 Prinos L.

1 verticillatus L. *Winter Berry, False Alder.*

312 Proserpinaca L.

1 palustris L. *Mermaid Weed.*

313 Prunella L.

1 pennsylvanica W. *Heal All.*

314 Prunus L.

1 borealis Ph.

2 americana Marshall—Ann. Lyc. N. Y. vol. 3. *Plum Tree.
chicasa Mx?*

3 depressa Ph.

4 mollis Torrey. *Williamstown.*

5 pumila L.

6 serotina Ehrh. *Choke Cherry.*

7 virginiana L. *Wild Cherry, Cabinet Cherry.*

315 Pycnanthemum Mx.

1 aristatum Mx.

2 incanum Mx. *Mountain Mint.*

3 lanceolatum? Ph.

4 linifolium Ph. *Virginian Thyme.*

316 Pyrola L.

1 asarifolia Mx.

2 elliptica Nutt.

3 minor L. ?

4 rotundifolia L. *Shin Leaf Wintergreen.*

5 *secunda* L.

6 *uniflora* L. Keene, N. Hampshire.

317 *Pyrus* L.

1 *coronaria*. *Crab Apple*. N. Haven, Eaton.

Q.

318 *Quercus* L.

1 *alba* W. *White Oak*.

2 *ambigua*? Mx. *fil.*

3 *Banisteri* Mx. *Shrub Oak*.

4 *coccinea* Wang. *Scarlet Oak*.

5 *montana* W. *Chesnut Oak*.

6 *palustris* W. *Pin Oak*.

7 *prinos-chinchapin* Mx. *Chinquapin*, 2 to 4 feet high, on sandy plains.

8 *prinos-discolor* Mx. *False Red Oak*.

9 *rubra* W. *Red Oak*.

10 *tinctoria* Mx. *Black Oak*.

319 *Queria* L.

1 *canadensis* L. *Fork Chickweed*. *Anychia dichotoma* Mx.

R.

320 *Ranunculus* L.

X 1 *abortivus* L.

X 2 *acris* L. *Butter Cup*, *Crowfoot*.

X 3 *bulbosus* L.

X 4 *cymbalaria* Ph. *Salt Marshes*, Boston.

X 5 *fascicularis* Muhl.

X 6 *filiformis* Mx. *Whitmore's Ferry*, *Sunderland*.

X 7 *flammula* L. *Spear Wort*. *Amherst*, N. *Parish*.

X 8 *fluviatilis* L. *River Crowfoot*.

X 9 *recurvatus* L.

10 *repens* L.

11 *sceleratus* L. *Celery Crowfoot*.

321 *Raphanus* L.

§? 1 *raphanistrum* L. *Cadlock*. *Charlock*.

322 *Rhamnus* L.

1 *alnifolius* PHerit. *Dwarf Alder*. *Boggy Meadows*, *Deer*. *field*.

§ 2 *catharticus* L. *Buckthorn*. *Hardwick*.

323 Rhexia L.

- 1 *Virginica* L. *Meadow Beauty.* Deer Grass. Shutesbury Pond.

324 Rhodora L.

- 1 *canadensis* L. *False Honeysuckle.* Amherst and Hardwick.

325 Rhododendron L.

- 1 *maximum* L. *American Rose Bay.* Medfield and Dedham.
A magnificent flowering shrub.

326 Rhus L.

- 1 *aromaticum* Ait. Williamstown.
2 *copallinum* L. *Sumach.*
3 *glabrum* L. *Sumach.*
4 *toxicodendron* L. *Poison Ivy.* *Poison Ash.*
5 *typhinum* L. *Sumach.*
6 *vernix* L. *Poison Sumach.*

327 Rhynchospora Vahl. False Bog Rush.

- 1 *alba* Vahl.
2 *glomerata* Vahl.
3 *marcrostachya* Torrey. MS. Belchertown and Leverett.

328 Ribes L.

- 1 *gracile* Mx. West River Mountain.
2 *floridum* l'Herit. *Black Currant.*
3 *lacustre* Ph.
4 *prostratum* l'Herit. Chesterfield, N. H.
5 *rigens* Mx. Monadnock and White Hills.
6 *triflorum* W. *Wild Gooseberry.*

329 Robinia L.

- § 1 *pseudo-acacia* L. *Locust Tree.*

330 Rosa L.

- 1 *corymbosa* Ehrhart. *carolina* L. *Swamp Rose.*
2 *lucida* Ehrh. Williamstown.
3 *parviflora* Ehrh. *carolina* Mx. *Wild Rose.*
4 *rubiginosa* L. *Sweet Briar.*

331 Rubus L.

- 1 *canadensis* L.
2 *obovalis* L.
3 *occidentalis* L. *Black Raspberry.*

4 odoratus L. *Flowering Raspberry.*

5 strigosus Mx. *Red Raspberry.*

6 trivialis Mx. *Dewberry.*

7 villosus Ait. *Blackberry.*

332 Rudbeckia L.

1 laciniata W. *Cone Flower.*

333 Rumex L.

1 acetosella L. *Field Sorrel.*

2 acutus ? L.

3 crispus L. *Dock.*

4 obtusifolius L.

5 verticillatus L. *Haddam Ct.*

334 Ruppia L.

1 maritima L. *Sea Teasel Grass.* N. Haven.

S.

335 Sagina L.

1 procumbens L. *Pearl Wort.*

336 Sagittaria L. *Arrow Head.*

1 acutifolia Ph.

2 heterophylla Ph.

3 lancifolia Mx.

4 sagittifolia L.

α latifolia.

γ gracilis.

337 Salicornia L.

1 herbacea L. *Samphire.* Glass Wort. N. Haven.

338 Salix L. *Willow.*

1 conifera W.

2 cordata W.

3 falcata.

4 grisea W.

5 lucida Muhl.

6 muhlenbergiana W.

7 myricoides W.

8 nigra W.

9 pedicellaris Beauv.

10 repens W. *White Hills.* Eaton.

- 11 *rigida* W.
 12 *vitellina*. *Yellow Willow*.
- 339 *Salsola* L.
 1 *caroliniana* Mx. *Salt Marshes, Boston*.
 2 *salsa* Mx. *Do*.
- 340 *Sambucus* L.
 1 *canadensis* L. *Elder*.
 2 *pubens* Mx. *Red Berried Elder*.
- 341 *Samolus* L.
 1 *Valerandi* L. *Brookweed*. *N. Haven*.
- 342 *Sanguinaria* L.
 1 *canadensis* L. *Blood Root*.
- 343 *Sanguisorba* L.
 1 *canadensis* L. *Burnet Saxifrage*. *Plum Trees and Deer-field*.
- 344 *Sanicula* L.
 1 *marilandica* L. *Sanicle*.
- 345 *Saponaria* L.
 § 1 *officinalis* L. *Bouncing Bet*. *Soap Wort*.
- 346 *Sarracenia* L.
 1 *purpurea* L. *Sidesaddle Flower*.
- 347 *Saxifraga* L.
 1 *pennsylvanica* L. *Water saxifrage*.
 2 *virginiensis* Mx. *Rock Saxifrage*.
- 348 *Schoenus* L.
 1 *mariscoides* Muhl. *Bog Rush*. *Belchertown and Leverett*.
- 349 *Scheuchzeria* L.
 1 *palustris* L. *Belchertown Ponds*.
- 350 *Schollera* Schreb.
 1 *graminifolia* W. *Leptanthus gramineus* Mx.
- 351 *Scirpus* L. *Club Rush*.
 1 *acicularis* L.
 2 *americanus* Pers. *Belchertown*.
 3 *atrovirens* Muhl.
 4 *autumnalis* Muhl.
 5 *brunneus* Muhl.

- 6 caespitosus L. White Hills.
 - 7 capillaris Muhl.
 - 8 capitatus L.
 - 9 debilis Muhl.
 - 10 intermedius Muhl.
 - 11 lacustris L.
 - 12 lineatus Mx. Plainfield.
 - 13 maritimus L. Salt Marsh, Boston.
 - 14 palustris L.
 - 15 planifolius Muhl. Mt. Holyoke.
 - 16 pusillus Vahl. ?
 - 17 subsquarrosus Muhl. Sunderland, near the bridge.
 - 18 subterminalis Torrey. Leverett, in ponds.
 - 19 tenuis W.
 - 20 trichodes Muhl.
 - 21 Eriophorum Mx. *Tricophorum cyperinum* Pers.
 - 22 triqueter Mx.
 - 23 tuberculatus Mx.
 - 24 "Distinct from *S. Eriophorum*—not described." *Tor in lit.*
 - 25 and 26: Allied to *S. eriophorum*: noticed while this sheet was in type and not yet ascertained.
- 352 *Scleranthus* L.
- 1 annuus L. *Knawel. Gravel Chickweed.*
- 353 *Scleria* Gaert.
- 1 triglomerata Mx. *Whip Grass.* Mt. Holyoke and School Meadow, Hadley.
- 354 *Scrophularia* L.
- 1 marilandica L. *Fig Wort.*
- 355 *Scutellaria* L.
- 1 galericulata L. *Scull Cap.*
 - 2 integrifolia L. E. Windsor, Ct. Dr. J. W. Robbins.
 - 3 lateriflora L. *Mad Dog Scull Cap.*
- 356 *Secale* L.
- 1 cereale L. *Rye.* Scarcely naturalized.
- 357 *Senecio* L.
- 1 aureus W. *Rag Wort.*
 - 2 balsamitae W. *Balsam Groundsel.*
 - 3 gracilis Ph.

- 4 *hieracifolius* L. *Fire Weed*.
- 5 *obovatus* W.
- 6 *vulgaris* L. *Groundsel*. Hartford, Dr. J.W. Robbins.
- 358 *Serpicula* L.
- 1 *occidentalis* Ph. *Ditch Moss*. Longmeadow.
- 359 *Setaria* P. de Beauv.
- 1 *viridis* P. de B. *Panicum viride* L.
- 2 *glaucua* P. de B. *P. glaucum*. *Fox Tail Grass*.
- 360 *Sicyos* L.
- § 1 *angulata* L. *Single Seed Cucumber*.
- 361 *Sida* L.
- 1 *abutilon* L. *Indian Mallows*.
- 362 *Silene* L.
- 1 *antirrhina* L. *Sleepy Catch Fly*.
- 2 *pennsylvanica* Mx. *Pink Catch Fly*.
- 363 *Sinapis* L.
- § 1 *nigra* Smith. *Mustard*.
- 364 *Sison* L. *Myrrhis Morrison*. *Chaerophyllum Pers.*
- 1 *canadense* L. *Hone Wort*. *Mock Sanicle*.
- 365 *Sisymbrium* L.
- 1 *araphibium* L. *Water Radish*.
- 2 *nasturtium* L. *English Water Cress*.
- 366 *Sisyrinchium* L.
- 1 *anceps* Cavan. *Blue Eyed Grass*.
- 367 *Sium* L.
- 1 *latifolium* L. *Water Parsnip*.
- 2 *lineare* Mx.
- 368 *Similax* L.
- 1 *peduncularis* W. *Jacob's Ladder*.
- 2 *rotundifolia* L. *Green Briar*.
- 369 *Smyrnum* L.
- 1 *aureum* L. *Sison aureus* Spreng. *Thaspium aureum* Nutt.
False Alexanders, *Meadow Parsnip*.
- 370 *Solanum* L.
- 1 *dulcamara* L. *Bitter Sweet*.

2 *nigrum* L. *Deadly Nightshade.*

371 *Solidago* L. *Golden Rod.*

1 *altissima* W.

2 *arguta* W.

3 *aspera* ? Ait.

4 *bicolor* L.

5 *caesia* W.

6 *ciliaris* ? W.

7 *gigantea* Ait.

8 *lanceolata* Ait.

9 *latifolia* Muhl.

10 *livida* W.

11 *nemoralis* Ait.

12 *odora* Ait. *Sweet Scented Golden Rod.* Holyoke.

13 *rigida* Ait. South Hadley Canal.

14 *serotina* W.

15 *squarrosa* Nutt. Mt. Holyoke.

16 *stricta* W.

17 *ulmifolia* W.

372 *Sonchus* L.

1 *leucophaeus* W. *Sow Thistle.*

2 *oleraceus* L.

373 *Sorbus* L.

1 *americana* W. *Mountain Ash.* Mt. Holyoke, Pelham.

374 *Sparganium* L.

1 *ramosum* Swartz. *Burr Reed.*

2 *angustifolium* Mx.

375 *Spergula* L.

1 *arvensis* L. *Spurry.*

376 *Spiraea* L.

1 *salicifolia* L. *Hard Hack.*

2 *tomentosa* L. *Steeple Bush, Meadow Sweet.*

377 *Stachys* L.

1 *aspera* Mx. *Hedge Nettle.*

2 *sylvatica* L. Hatfield, Bank of the River.

378 *Staphylea* L.

1 *trifolia* L. Mt. Holyoke. *Bladder Nut.*

379 *Statice* L.

- 1 *limonium* L. *Marsh Rosemary*. N. Haven.

380 *Stellaria* L.

- 1 *lanceolata* Torrey.
 2 *longifolia* Muhl. *Long Leaf Starwort*.
 3 *media* Smith. *Alsine media* L. *Chickweed*.

381 *Stipa* L.

- 1 *canadensis* Lmk. *junceae* Mx. non L. *Oryzopsis parviflora*
Nutt. Journ. Acad. Nat. Sci. Phil. Milium pungens Torrey:
fide Torreo ipso.

382 *Streptopus* Mx.

- 1 *distortus* Mx. *Deerfield*.
 2 *roseus* Mx. *Rose Bell Wort*. Conway.

383 *Swertia* L.

- 1 *pusilla* Ph. *False Gentian*. White Hills.

T.

384 *Tanacetum* L.

- § 1 *vulgare* L. *Tansey*.

385 *Taxus* L.

- 1 *canadensis* W. *Dwarf Yew*.

386 *Thalictrum* L.

- 1 *dioicum* L. *Meadow Rue*.
 2 *polygamum* Muhl.

387 *Thesium* L.

- 1 *umbellatum* L. *False Toad Flax*.

388 *Thlaspi* L.

- 1 *bursa-pastoris* L. *Shepherd's Purse*.
 2 *campestris* L. *Yellow Seed, Mithridate Mustard*.

389 *Thymus* L.

- § 1 *vulgaris* L. *Thyme*. Longmeadow.

390 *Tiarella* L.

- 1 *cordifolia* L. *Mitre Wort*.

391 *Tilia* L.

- 1 *glabra* Vent. *Bass Wood*.
 2 *pubescens* Vent. *Bass Wood*.

392 *Trichocloa* De Cand.

- 1 capillaris De Cand. *Stipa sericea* Mx.

393 *Trichodium* Mx.

- 1 laxiflorum Mx. *Tickle Grass*.
2 scabrum Muhl.

394 *Trichostema* L.

- 1 dichotoma L. *Blue Curls*.

395 *Tricupsis* Beauv.

- 1 sesleroides Torrey. *Poa quinquefida* Ph. *Sugar Loaf*.

396 *Trientalis* L.

- 1 americana Ph. and Big. *Chick Wintergreen*.

397 *Trifolium* L.

- 1 arvense L. *Field Clover, Rabbit Foot*.
2 pratense L. *Common Clover*.
3 repens L. *White Clover*.

398 *Triglochin* L.

- 1 maritimum L. *Arrow Grass*. N. Haven.

399 *Trillium* L.

- 1 cernuum L. *Nodding Wake Robin*.
2 erectum L. *False Wake Robin*.
3 pictum Ph. *Smiling Wake Robin*.

400 *Triosteum* L.

- 1 perfoliatum L. *Fever Root, Horse Ginseng*.

401 *Triphora* Nutt.

- 1 pendula Muhl. *Arethusa pendula* L. *Three. Bird Orchis*.
Deerfield, Rare.

402 *Trisetum* Pers.

- 1 palustre Torrey. *Aira pallens* Muhl.

403 *Triticum* L.

- § 1 aestivum L. *Wheat*. Scarcely naturalized.

404 *Tussilago* L.

- 1 farfara W. *Colts Foot*.
2 palmata Ait. *Plum Trees, Sunderland*. *The only known locality in the United States*.

405 *Typha* L.

- 1 latifolia L. *Cat tail, Reed Mace.*

U.

406 Ulmus L.

- 1 americana L. *Elm.*
2 fulva Mx. *Slippery Elm, Red Elm.*

407 Uniola L.

- 1 spicata L. *N. Haven.*

408 Uraspermum Nutt.

- 1 claytoni Nutt. *Sweet Cicely. Chaerophyllum claytoni Pers.*
Scandix dulcis Muhl.

409 Urtica L.

- 1 canadensis L. *Yellow Nettle.*
2 dioica L. *Common Nettle.*
3 pumila W. *Stingless Nettle.*
4 urens L. *Dwarf Stinger.*

410 Utricularia.

- 1 cornuta Mx. *Leafless Bladder Wort. Shutesbury Pond.*
2 gibba Gron. *Pittsfield.*
3 striata Le Conte. *Leverett.*
4 vulgaris L. *Bladder Wort.*

411 Uvularia L.

- 1 perfoliata L. *Bell Wort.*
2 sessilifolia L.

V.

412 Vaccinium L.

- 1 corymbosum L. *Giant or Swamp Whortleberry.*
2 frondosum L. *Blue Whortleberry.*
3 pennsylvanicum Lam. *Black-blue Whortleberry.*
4 resinsum Ait. *Black Whortleberry.*
5 stamineum L. *Squaw Whortleberry.*
6 tenellum Ait. *White Hills.*
7 uliginosum L. *White Hills.*

413 Vallisneria L.

- 1 spiralis L. *Tape Grass. Sunderland; in Connecticut River.*

414 Veratrum L.

- 1 viride Ait. *Indian Poke. White Hellebore.*

415 *Verbascum* L.

- 1 *blattaria* L. *Sleek Mullein*. Northampton, Eaton.
- 2 *thapsus* L. *Mullein*.

416 *Verbena* L.

- 1 *angustifolia* Mx. South Hadley.
- 2 *hastata* L. *Vervain*.
- 3 *urticifolia* L. *Nettle leaf Vervain*.

417 *Vernonia* L.

- 1 *noveboracensis* L. *Flat Top*. West Springfield.

418 *Veronica* L.

- 1 *anagallis* L. *Brook Pimpernel*.
- 2 *arvensis* L. *Wall Speedwell*.
- 3 *beccabunga* L.
- 4 *officinalis* L. *Speedwell*.
- 5 *peregrina* L. *Purslane Speedwell*.
- 6 *scutellata* L. *Scull-cap Speedwell*.
- 7 *serpyllifolia* L. *Smooth Speedwell*.

419 *Viburnum* L.

- 1 *acerifolium* L. *Maple Guelder Rose*.
- 2 *dentatum* L. *Arrow Wood*.
- 3 *lantanoides* Mx. *Hobble Bush*. *Tangle Legs*.
- 4 *lentago* L. *Sheep Berry*.
- 5 *nudum* L.
- 6 *oxycoccus* Ph. *High Cranberry*.
- 7 *pyrifolium* Lam. *Williamstown*.

420 *Vicia* L.

- 1 *cracca* L. *Deerfield*.
- 2 *sativa* Walt. *Tare*.

421 *Villarsia* Gmelin.

- 1 *lacunosa* Vent. *Spur Stem*. *Floating Heart*. Springfield and Plainfield.

422 *Viola* L.

- 1 *acuta* Big. *Long Meadow*.
- X 2 *blanda* W. *Smooth Violet*.
- 3 *canadensis* L. *Woods Violet*.
- 4 *cucullata* Ait. *Common Violet*.
- 5 *lanceolata* L. *Spear Violet*.

6 obliqua? Ait.

7 ochroleuca Schwein. *Weak Stem Violet.*

8 ovata Nutt.

9 palmata L. *Hand Violet.*

X 10 pedata L. *Bird Foot Violet.*

11 pubescens Ait. *Yellow Violet.*

12 rostrata Muhl. *Beaked Violet.* Conway.

13 rotundifolia Mx. *Ground Violet.*

14 sagittata Ait. *Arrow Violet.*

§ 15 tricolor L. *Garden Violet.*

16 villosa Nutt.

423 Vitis L.

1 aestivalis Mx. *Summer Grape.*

2 cordifolia Mx. *Frost Grape.*

3 labrusca L. *Plum Grape.*

X.

424 Xanthium L.

1 strumarium L. *Clott Burr.*

425 Xylosteum Tournef.

1 ciliatum Ph. *Fly Honey Suckle.*

2 villosum Mx. *solonis Eaton.* Deerfield.

426 Xyris L.

1 caroliniana Walt. *Yellow Eyed Grass.* Shutesbury.

Z.

427 Zanthoxylum L.

1 fraxineum W. *Prickly Ash.* Sunderland.

428 Zizania L.

1 clavulosa Mx. *Water Oats.* *Wild Rice.* Northampton Meadows.

429 Zostera L.

1 marina Vahl. *Grass Wrack.* *Sea Eel Grass.* N. Haven.

PART II.

CRYPTOGAMOUS PLANTS.

Arranged alphabetically under their several Orders.

ORDER I.

FILICES.

430 *Adiantum* L.

✕ 1 *pedatum* L.

431 *Aspidium* Swartz. *Brake, Fern.*

✕ 1 *acrostichoides* Swartz. *Nephrodium acrostichoides* Mx.

2 *angustum* W?

✕ 3 *asplenoides* W.

✕ 4 *cristatum* Sw. vars 1 *callipteris* Ph. 2 *lancastriense* W.

✕ 5 *dilatatum* W.

✕ 6 *fragile* W.

✕ 7 *Goldianum* Hooker. *felix-mas* Ph.

✕ 8 *marginale* Sw. *Nephrodium marginale* Mx.

9 *noveboracense* W.

10 *punctilobum* W.

432 *Asplenium* L. *Brake, Fern.*

✕ 1 *angustifolium* Jacq. *Spleenwort.*

✕ 2 *ebenum* Ait. *trichomanoides* Mx.

✕ 3 *melanocaulon* W. *trichomanes* Mx.

✕ 4 *rhizophyllum* L. *Walking Leaf.*

5 *ruta-muraria* L.

✕ 6 *thelypteroides* W. *acrostichoides* Sw.

433 *Botrychium* Swartz.

1 *fumaroides* W. *Grape Fern.*

2 *simplex* Hitchcock. Conway: also at Plainfield, Ashfield, Windsor, and Cummington. Dr. Porter.

3 *virginicum* W.

434 *Equisetum* L.

1 *arvense* L.

2 *hyemale* L.

3 *sylvaticum* W.

- 4 palustre L.
- 5 scirpoides Mx. Plainfield and Cheshire. Dr. Porter.
- 6 uliginosum L.

435 Hypopeltis Torrey.

- 1 obtusa Torrey. *Aspidium obtusum* W.

436 Lycopodium L.

- 1 annotinum W.
- 2 apodum W.
- 3 clavatum W. *Club Moss.*
- 4 complanatum W. *Ground Pine.*
- 5 dendroideum W. *Do.*
- 6 inundatum W. *Do.*
- 7 lucidulum W. *Moon Fruit Pine.*
- 8 rupestre W. *Festoon Pine.*
- 9 selago L. *White Hills.*

437 Lygodium Sw.

- X 1 palmatum Swartz. *Climbing Fern.* Abundant half a mile west of the College: also in Granby. "The most elegant and curious fern in the United States; but every where uncommon." Nuttall.

438 Onoclea L.

- 1 obtusiloba Schk. Probably a variety of the next species.
- X 2 sensibilis L. *Sensitive Fern.*

439 Ophioglossum L.

- X 1 vulgatum L. *Adder Tongue Fern.*

440 Osmunda L.

- 1 alata Goldie?
- X 2 cinnamomea W. *Flowering Fern.*
- X 3 interrupta Mx.
- X 4 spectabilis W. *regalis Mx.*

441 Polypodium L.

- 1 calcareum Sm.
- 2 connectile W. *Phegopteris* L.
- 3 dryopteris W.
- 4 hexagonopterum W.
- X 5 vulgare L. *Polypod.*

442 *Pteris* L.

- ✱ 1 *aquilina* L. *Common Brake.*
- 2 *atropurpurea* L. *Rock Brake.*

443 *Struthiopteris* W.

- 1 *pennsylvanica* W. *Onoclea nodulosa* Schk. *Brake, Fern.*

444 *Woodsia* R. Brown.

- ✱ 1 *ilvensis* R. Br.

445 *Woodwardia* Smith.

- 1 *angustifolia* Sm. *Kidney Fern. Deerfield.*

ORDER II.

MUSCI. *Mosses.*446 *Anictangium* Hedw.

- 1 *filiforme* Hedw. *Hedwigia filiformis* P. de Beauv.

447 *Anomodon* Hooker and Taylor.

- 1 *viticulosum* H. and T. *Neckera viticulosa* Hedw.

448 *Arrhenopterum* Hed.

- 1 *heterostichum* Hed. *Bryum arrhenopterum* Dill.

449 *Bartramia* Hedw.

- 1 *crispa* Sw.?
- 2 *fontana* Hooker.
- 3 *gracilis* Sm. *oederi* Schwaegrichen.
- 4 *pomiformis* Hedw.

450 *Bryum* L.

- 1 *androgynum* Hedw.
- 2 *argenteum* L.
- 3 *caespiticiun* L.
- 4 *cuspidatum* Schreb.
- 5 *nutans* Schreb. *Webera nutans* Hedw.
- 6 *punctatum* Schreb.
- 7 *roseum* Schreb.
- 8 *triquetrum* Turner. *Meesia longiseta* Hed.
- 9 *turbinatum* Sw.

451 *Buxbaumia* L.

- 1 *aphylla* L.

452 *Catharinea* Ehrh.

- 1 undulata Weber and Mohr. *Polytrichum undulatum* Hed.

453 *Climacium* Web. and Mohr.

- 1 americanum Brid. *Hypnum dendroides* L.

454 *Dicranum* Hedw.

- 1 glaucum Hedw.
- 2 heteromallum Hedw.
- 3 orthocapon Hedw.
- 4 polycarpum Ehrh.
- 5 scoparium Hook. and Tay. β fuscescens.
- 6 strictum Brid?
- 7 undulatum Ehrh.

455 *Diphyscium* Web. and Mohr.

- 1 foliosum Web. and Mohr. *Hypnenopogon heterophyllum* P.
de Beauv.

456 *Didymodon* Hedw.

- 1 purpureum Hook. and Tay. *Dicranum purpureum* Hedw.

457 *Diplocomium* Web. and Mohr.

- 1 longisetum Web. and Mohr.

458 *Encalypta* Schreb.

- 1 ciliata Hedw. East side of the North Sugar Loaf, Deer-field.

459 *Fissidens* Hedw.

- 1 adianthoides Hedw.
- 2 taxifolius? Hedw.

460 *Fontinalis* L.

- 1 antipyretica L.

461 *Funaria* Hedw.

- 1 flavicans Muhl.
- 2 hygrometrica Hedw.

462 *Grimmia* Hedw.

- 1 leucophoea Hook. and Tay.
- 2 ovata?
- 3 pilifera Mx.
- 4 pulvinata Smith.

463 *Gymnostomum* Hedw.

- 1 prorepens Hedw. *Orthotrichum clavellatum* Hook. and Tay.

2 pyriforme Hedw.

464 Hypnum Hedw.

1 abietinum L.

2 confertum Dicks.

3 Cooleyianum Spreng.

4 crista-castrensis L.

5 cupressiforme Hook.

6 cuspidatum L?

7 denticulatum L.

8 dimorphum Brid.

9 filicinum L.

10 fragile Brid.

11 hians Muhl.

12 imponens Hedw.

13 lutescens Schreb.

14 proliferum.

15 riparium Hook.

16 serpens L.

17 striatum Schreb.

18 tenax? Hedw.

19 Torreyanum Spreng.

20 triquetrum L.

465 Leskea Spreng.

1 acuminata Hedw.

2 curvata Voit. Sugar Loaf. Rarely producing fruit in this country, or in Europe.

3 obscura Hedw.

466 Leucodon Schwaegrichen.

1 sciuroides Schwaeg. Deerfield.

467 Neckera Hedw.

1 minor Beauv.

2 pennata Hedw.

468 Orthotrichum Hedw.

1 affine Hook. and Tay.

2 anomalum Hedw.

3 crispum Hook. and Greville.

4 cupulatum Hoffm?

5 Drummondi Hook. and Grev.

6 Hutchinsiae Hook. and Grev.

7 pumilum Swartz.

8 strangulatum. B. de P.

469 *Polytrichum* L.

1 commune L.

2 formosum Hedw.

3 juniperinum W.

4 pennsylvanicum Hedw.

5 undulatum Hedw.

470 *Pterogonium* Swartz. *Pterigynandrum* Hedw.

1 apiculatum Brid.

2 hirtellum Hedw.

3 julaceum Hedw.

4 subcapillatum Hedw.

5 trichomitrium Swartz.

471 *Sphagnum* L.

1 acutifolium Hook. and Tay. *capillifolium* Hedw.

2 obtusifolium Hook. *cymbifolium* Swartz.

3 squarrosum Web. and Mohr.

472 *Tetraphis* Hedw.

1 pellucida Hedw.

473 *Timmia* Hedw.

1 cucullata Mx. Williamstown.

474 *Trematodon* Rich.

1 longicollis Rich. Deerfield.

475 *Trichostomum* Hedw.

1 pallidum Hedw.

476 *Weissia* Hedw.

1 microdonta. Hedw.

2 viridula Hedw.

ORDER III.

HEPATICAÆ.

477 *Anthoceros* L.

1 levis L. Wax Liverwort.

478 *Blasia* L.

1 pusilla L.

479 *Jungermannia* L.

- 1 *complanata* L. *Plaited Moss.*
- 2 *nodifolia* Torrey MS. *sertularioides* Mx.
- 3 *pinguis* L.
- 4 *platyphylla* L.
- 5 *porella* Dickson. Ware, Mr. E. Davis.
- 6 *scalaris* Schwein.
- 7 *tamarisci* Martens.
- 8 *tomentella* Ehrh.
- 9 *trilobata*.
- 10 *tridenticulata* Mx.

480 *Marchantia* L.

- 1 *conica* L.
- 2 *crinita* Mx.
- 3 *cruciata*? L. *Staurophora pulchella* W.
- 4 *polymorpha* L. *Brook Liverwort.*
- 5 *triceps* Schw. MS.

481 *Riccia* L.

- 1 *natans* L.

ORDER IV.

ALGAE.

482 *Conferva* L. *Frog's Spittle.*

- 1 *fontinalis* L. et plures aliae.

483 *Fucus* L.

- 1 *nodosus* L. N. Haven.
- 2 *vesiculosus* L. Do.

484 *Lemania* Agardh.

- 1 *fluviatilis* Agardh. Turner's Falls.

485 *Solenia* Agardh.

- 1 *compressa* Agardh. N. Haven.

486 *Spongia* L.

- 1 *fluviatilis* L. Leverett, Chesterfield &c. in ponds. Generally considered an animal; but most probably it is a vegetable. Decandolle places it among the Fungi. *Philos. Plants*, p. 139.

487 *Sphaerococcus* Agardh.

- 1 *confervoides* Agardh. Long Island Sound.

488 *Ulva* L.

- 1
- latissima*
- L. N. Haven.

The above are only a small part of the plants of this order, that grow upon the coast of N. England.

ORDER V.

LICHENES. *Lichens.*

Mostly according to Acharius.

489 *Alectoria*.

- 1
- jubata*
- .
- Negro Hair.*

490 *Arthonia*.

- 1
- punctiformis*
- .
-
- 2
- radiata*
- .

491 *Bæomyces* Pers.

- 1
- roseus*
- Pers.

492 *Borrera*.

- 1
- chrysophthalma*
- . Southington Ct. Dr. Porter.

493 *Calicium*.

- 1
- tigillara*
- . Cummington. Dr. Porter.

494 *Cenomyce*.

- 1
- allotropa*
- .
-
- 2
- baccillaris*
- &
- clavata*
- .
-
- 3
- botrytes*
- .
-
- 4
- capitata*
- .
-
- 5
- coccifera*
- .
-
- 6
- endivæfolia*
- .
-
- 7
- caespititia*
- .
-
- 8
- gonorega*
- .
-
- 9
- pyxidata*
- .
-
- 10
- rangiferina*
- .
-
- vars. 1
- sylvatica*
- .
-
- 2
- alpestris*
- .
-
- 3
- minor*
- .

- 11
- verticillata*
- .

495 *Cetraria*.

- 1
- ciliaris*
- .
-
- 2
- glauca*
- .
-
- 3
- islandica*
- .
- Iceland Lichen*
- . White Mountains.

4 lacunosa.

496 *Collema* Hoffm.

1 furvum.

2 juglandii Schw.

3 lacerum.

4 tunaeforme.

497 *Cornicularia* Schreb.

1 fibrillosa.

498 *Endocarpon* Hedw.

1 miniatum.

2 smaragdulum. Plainfield, Dr. Porter.

3 Weberi. Plainfield, Dr. Porter.

499 *Evernia*.

1 prunastri. *Borrera purpuracea* Spreng.

500 *Graphis* Adanson.

1 scripta.

501 *Gyrophora*.

1 deusta.

2 muhlenbergii.

3 papulosa.

4 vellea.

502 *Hysterium* Tode.

1 rufescens Schw.

503 *Leeanora*.

1 albella.

2 atra var. liquatilis.

3 brunnea.

4 caesio-rubella.

5 candellaria.

6 fulva Schw.

7 granulosa.

8 parella.

9 salicina Plainfield, Dr. Porter.

10 sophodes?.

11 subfusca.

12 tartarea.

13 tuberculosa.

14 varia.

15 vitellina.

504 Lecidea.

1 albella Schw. MS.

2 albo-caerulescens.

3 carneola.

4 demissa.

5 Ehrhartiana.

6 immersa.

7 oederi ?.

8 parasema.

9 subfusca.

10 umbrina.

505 Lepraria.

1 sulphurea.

506 Nephroma.

1 resupinata Spreng.

507 Pyrenula Spreng.

1 enteroleuca Spreng. Plainfield, Dr. Porter.

508 Parmelia. *Shield Lichen.*

1 aipolia.

2 aleurites.

3 caesia.

4 caperata.

5 ciliaris ?.

6 colpodes.

7 corrugata.

8 crinita ?.

9 cristulata.

10 cycloselis.

11 herbacea.

12 olivacea.

13 parietina.

14 perforata.

15 physodes.

16 physodoides Schw. MS.

17 placorodia Muhl.

18 plumbea.

19 rutilans. Plainfield, Dr. Porter.

20 saxatilis.

- 21 scortea.
- 22 stellaris.
- 23 tiliacea.
- 24 ulothrix.
- 25 venusta.

509 Peltidea.

- 1 apthosa.
- 2 canina.
- 3 horizontalis.
- 4 scutata. *Target Lichen.*
- 5 venosa.

510 Porina.

- 1 fallax.
- 2 papillata.
- 3 pertusa.

511 Ramalina.

- 1 fastigiata.
- 2 fraxinea.
- 3 polymorpha.

512 Stereocaulon Schreb.

- 1 paschale.

513 Sticta Schreb.

- 1 aurata Smith in Rees' Cyc. Western, Dr. Porter.
- 2 pulmonacea.
- 3 scrobiculata.
- 4 sylvatica.

514 Usnea Schreb.

- 1 florida Hoffm.
- 2 plicata Hoffm.

515 Variolaria Pers.

- 1 corallina. Plainfield, Dr. Porter.
- 2 velata.

516 Verrucaria.

- 1 gemmata.

OTDER IV,

FUNGI.

517 Aecidium Pers.

1 *Helianthi mollis*? Schw.

2 *Solidaginis* Schw.

518 *Agaricus* L. *Mushroom. Toad Stool. Agaric.*

1 *alneus* L.

2 *campestris* L.

3 *coriaceus* Bull.

4 *disseminatus* Pers.

5 *salignus* Pers.

6 *trabeus*? Pers.

7 *velutipes* Curtis.

8 Trib. *Gomphus* Fries, nov. Sp.? Torrey: et plures indeterminatae.

519 *Amanita* Pers.

1 *cesareus* Schaeff.

2 *livida*? Pers.

520 *Arcyria* Pers.

1 *punicea* Pers.

521 *Boletus* L.

1 *adustus* W. *Polyporus adustus* Fries.

2 *alneus* Pers. *P. cuticularis* F.

3 *badius* Pers. *P. varius* F.

4 *betulinus* Bull. *P. betulinus* F.

5 *bovinus* L.

6 *brumalis* Pers. *P. brumalis* F.

7 *carbonarius* Schw. MS.

8 *cinnabarinus* Jacq. *P. cinnabarinus* F.

9 *citrinus* Planer. *P. sulphureus* F.

10 *conchifer* Schw.

11 *delicatulus* Schw. MS.

12 *ferrugineus* Schaeff.

13 *igniarius* L.

14 *isabellinus* Schw. *P. isabellinus* F.

15 *leptocephalus* Jacq. *P. leptocephalus* F.

16 *lucidus* Curtis. *P. lucidus* F.

17 *mucidus* Pers. *P. mucidus* F.

18 *nigro-marginatus* Schw.

19 *nitidus* Pers. *P. nitidus* F.

20 *perennis* L. *P. perennis* F.

21 *polycephalus* Pers. *P. umbellatus* F.

- 22 ramosus Bull. *P. imbricatus* F.
- 23 reticulatus Pers. *P. reticulatus* F.
- 24 salicinus Pers. *P. salicinus* F.
- 25 squamosus Hudson. *P. squamosus* F.
- 26 tulipiferae Schw.
- 27 varius Pers. *P. varius* F.
- 28 velutinus Pers. *P. velutinus* F.
- 29 versicolor L. *P. versicolor* F.
- 522 Bovista Dillenius.
 - 1 nigrescens ? Pers. *Puff Ball*.
- 523 Cantharellus Adanson.
 - 2 pusillus Fries.
 - 2 undulatus ? Fries.
- 524 Clavaria Vaillant.
 - 1 aurantiaca Pers.
 - 2 coralloides L.
 - 3 helveloides ? Withering.
 - 4 pistillaris L.
 - 5 rufa ? Muhl.
 - 6 tenuis Sowerby.
- 525 Daedalea Pers.
 - 1 albida Schw. *Sistotrema violaceum* Pers.
 - 2 cinerea Fries.
 - 3 confragosa Bolton.
 - 4 latissima Fries.
 - 5 quercina L.
 - 6 sepiaria Wulfen.
- 526 Fistulina Bull.
 - 1 hepatica Fries. *Boletus hepaticus* Pers. Plainfield. Porter.
- 527 Fuligo Pers.
 - 1 rufa ? Pers.
- 528 Geastrum Pers.
 - 1 hygrometricum Pers.
 - 2 rufescens Schaeff.
- 529 Geoglossum Pers.
 - 1 hirsutum Pers.
- 530 Glonium Muhl.
 - 1 stellatum Muhl. Fries.

531 *Gyropodium* Schw. MS.

- 1 *coccineum* Schw. Deerfield, Whately, and Mt. Holyoke.
Described by Schweinitz, with a figure, in his "Synopsis
Fungorum Carolinae" &c. under the name of *Mitremyces lutescens*—p. 34. See also a figure and description
of the physiology of this remarkable fungus in *Am. Jour.*
Science, Vol. 9, p. 56.

532 *Helotium* Pers.

- 1 *aciculare*? Pers. *Peziza Helot. acic. Fries.*

533 *Helvella* L.

- 1 *albida* Bull.
2 *esculenta* Pers.
3 *mitra*? L.

534 *Himantia* Pers.

- 1 *candida* Pers.
2 *domestica* Pers.

535 *Hydnum* L.

- 1 *coralloides* Scop. Conway and Ashfield.
2 *coriaceum* Torrey MS.
3 *cyathiforme* Bull.
4 *gelatinosum* Scop.
5 *imbricatum* L.
6 *occarium* Batsch.
7 *repandum* L.
8 *tomentosum*? L.

536 *Hysterium* Tode.

- 1 *pulicare* Pers.
2 *rufescens* Schw.

537 *Leotia* Hill.

- 1 *chlorocephala* Schw.

538 *Licea* Schrad.

- 1 *variabilis* Schrad.

539 *Lycogola* Pers.

- 1 *miniata* Pers.

540 *Lycoperdon* L.

- 1 *bovista* Pers. non Bull.
2 *excipuliforme* Scop.

- 3 molle ? Pers.
- 4 pratense Pers.
- 5 pyriforme ? W.
- 541 *Merisma* Pers.
 - 1 cristatum Pers. *Thelephora Meris. crist. Fries.*
- 542 *Merulius* Hall.
 - 1 agaricoides Schw. MS.
 - 2 cantharellus Pers. *Cantharellus cibarius Fries.*
 - 3 cornucopioides With. *Cantharellus corn. Fries.*
 - 4 elegans Pers.
 - 5 tremellosus Schrad.
- 543 *Morchella* Dill.
 - 1 esculenta Pers. *Morel.*
 - 2 patula ? Fries.
- 544 *Mucor* L.
 - 1 herbariorum Wigg.
 - 2 mucedo Pers.
- 545 *Naemaspora* Spreng.
 - 1 crocea Pers.
- 546 *Nidularia* Bull.
 - 1 campanulata Sibth. *Cyathus olla Pers.*
 - 2 striata Bull. *Cyathus striatus Hoffm.*
- 547 *Peziza* L.
 - 1 acetabulum L.
 - 2 auriformis Schw.
 - 3 brunnea Fries.
 - 4 citrina Batsch.
 - 5 clypeata ? Schw.
 - 6 hemispherica Wigg.
 - 7 inquinans Pers.
 - 8 lenticularis Bull.
 - 9 mitrula Schw.
 - 10 nigrella Pers.
 - 11 scutellata L.
 - 12 umbrina Pers.
- 548 *Phallus* Mx.
 - 1 impudicus L.
- 549 *Physarum* Pers.

1 cinereum? Pers.

550 Polyporus Micheli.

1 abietinus Fries. *Sistotrema violaceum* Pers.-

2 croceus Fries.

551 Racodium Pers.

1 xylostroma Pers. *Xylostroma giganteum* Tode. Oak Leather,
Punk.

552 Rhizomorpha Pers.

1 subcorticalis Micheli.

553 Scleroderma Pers.

1 cervinum Pers.-

554 Sclerotium Tode.

1 radiciforme Schw. MS. A remarkable subterranean species. Conway.

555 Sistotrema Pers.

1 cinereum Pers.

556 Spermoedia Fries.

Clavus Fries. *Sclerotium Clavus* Decand. Ergot.

557 Sphaeria Hall.

1 bulbosa Pers.

2 concentrica Tode.

3 curvirostris Schw. MS. *non curvirostra* Sowerby.

4 decolorans Pers.

5 fragiformis? Pers.

6 gyrosa Schw.

7 lata Pers.

8 militaris L.

9 nivea Hoffm.

10 polymorpha Pers.

11 rubiginosa Pers.

12 scoparia Schw.

558 Stemonitis Gleditsch.

1 fasciculata Pers.

559 Thelephora Ehrhart.

1 aurantia Ehrh.

2 caryophyllaea Schaeff.

3 crispa Pers.

4 fasciata Schw.

- 5 *ferruginea* Pers. No. 9.
- 6 *flabellaris* Fries.
- 7 *frustulata* Pers.
- 8 *gigantea* Fries.
- 9 *hirsuta* W.
- 10 *hydnoidea* Pers.
- 11 *incarnata* Pers.
- 12 *laevis* Pers.
- 13 *multipartita* Schw. MS.
- 14 *palmata* Fries.
- 15 *polygonia* Pers.
- 16 *purpurea* Pers.
- 17 *quercina* Pers.
- 18 *rubiginosa* Schrad.
- 19 *rugosa* Pers.
- 20 *spadicea* ? Pers.
- 21 *terrestris* Ehrh.
- 22 *verrucosa* Schw. MS.
- 560 *Tremella* Dill.
 - 1 *mesenterica* Retz.
- 561 *Trichia* Haller.
 - 1 *varia* Pers.
- 562 *Tubercularia* Tode.
 - 1 *castaneae* Pers.
 - 2 *pezizoidea* Schw. MS.
 - 3 *rosea* Pers.
 - 4 *vulgaris* Tode.
- 563 *Tubulina* Pers.
 - 1 *fallax* ? Pers.
 - 2 *fragiformis* Pers.
- 564 *Uredo* Pers.
 - 1 *caricis* Pers. On *Carex varia*.
 - 2 *linearis* Lamb. On the leaves of oats, rye, wheat, &c.
 - 3 *zeae* Schw. The *Smut*, on Indian Corn.
- 565 *Xyloma* Pers.
 - 1 *acerinum* Pers.
 - 2 *andromedae* Pers.

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